

1 10 20 30 40 50 60
AT5G49160_MET1 MVENGAKAAKRKRPLPEI.....QVEVDVPRPT.....RRPRRAAACTSFKEKSIKRVCEKKSATIEVKKQIVPE
29983.m003308_MET1MKNKKGPKSSVSK..ANKEQINNIKEK.....KRSSSQKNEEPAGSKRKPRAAACTDFKEKAVRLSDKSSVLESRRDQFADD
29609.m000606_MET1 .MVSREVEVSEKAPFSDNNKKTGAAEDTNIQESKPENGDGAASKVKLKRGLSKNVENVYSSRKMTRAAACSDFKKEPLDFSEEYSFTIKKQVIVHE

70 80 90 100 110 120 130 140 150 160
AT5G49160_MET1 EFLALRLTALLETDEVDLRFTRRLNDFVLFDSGVFQPLEMIEIHDIFVSGATLPSDVCTDKKKEKGVRCVTSFGRVEHWSISGYEDGSPVIWISITLADYDC
29983.m003308_MET1 EILAVLTHGQDDG..RPNRRLDFVVDENGTFOPLEMIEVDDMFISGLTLPDENPKKKEKRRVRCVTSFGRVEHWSISGYEDGSPVIWISITLADYDC
29609.m000606_MET1 EAVALRLTAGRDL..RPNRRLDFVVDENGTFOPLEMIEVDDMFISGLTLPDENPKKKEKRRVRCVTSFGRVEHWSISGYEDGSPVIWISITLADYDC

170 180 190 200 210 220 230 240 250 260
AT5G49160_MET1 FKPAASVYKVVYDFYFEKARASVAVYKKLSSKSSGCPDGLDELAVVVRMSVSGSKYFSSGAAIDDFVISQGFYIYNQLAGLDTAKKHSSYVEIPVLLV
29983.m003308_MET1 LKPANNYKFKVDFHFEKARACILVYKKLSSKSSGCPDGLDELAVVVRMSVSGSKYFSSGAAIKDFVISQGFYIYNQLAGLDTAKKHSSYVEIPVLLV
29609.m000606_MET1 IKPANRYKFKVDFHFEKARACVAVYKKLSSKSSGCPDGLDELAVVVRMSVSGSKYFSSGAAIKDFVISQGFYIYNQLAGLDTAKKHSSYVEIPVLLV

270 280 290 300 310 320 330 340 350
AT5G49160_MET1 ATRKSSK....IDKPLQRERNPSNGVRIKEVS..QVAESFALTSDQLVDGTDDRRYATLQDEENRKSQPRKNSSSGASNMFYIKINEDEIAND
29983.m003308_MET1 ATRDKSEEHGDFVLAQAVT...SGNLTLYQKFGDSVSNVNSQSISSAA.GEDDEAKLARLQDEEYQWTKKQKHGSASSSNTIYIKINEDEIAND
29609.m000606_MET1 AMRDEKKKREGLFMHEATTTRTVNRNLTIDGKL.....TNQLISSLA.EEDDEMKLASRQEVNWLMSKQNKRRFSVPSH..FYIKINEDEIAND

360 370 380 390 400 410 420 430 440
AT5G49160_MET1 YPLPSYKTSSEETDELILYDASY..EVQSEHLRHRMLHNVLYNSDLRFISLELLPMPKQCDIDVNFSGSVVTDNGSWISLNDP...SGSQSH
29983.m003308_MET1 YPLPVAATNCSDEETDEYLAIDTEEHIMVDPDELKRRMLHNVLYNSDLRFISLELLPMPKQCDIDVNFSGSVVTDNGSGFSLDDDDQSSSAGSQAQ
29609.m000606_MET1 YPWPYKTSSEETDEFLVICDE..IFNP...EENVLHNVLYNSDLRFISLELLPMPKQCDIDVNFSGSVVTDNGSGFSLDDDDQSSSAGSQAQ

450 460 470 480 490 500 510 520 530 540
AT5G49160_MET1 DDPGMCIFLSQIKEMWIEFGSDDIISISRTDVAWYRLGKPSKIYAPWVKPVLTARVGIISITLFLRVSRVARSLSFADVTKRISGLQANDKAVISSDPL
29983.m003308_MET1 DDPGLPIFLSAIKEMWIEFGS.SMVVISIRTDMAWYRLGKPSKIYAPWVKPVLTARVGIISITLFLRVSRVARSLSFADVTKRISGLQANDKAVISSDPA
29609.m000606_MET1 D.VGLPIVYSAIKEMWIEFGS.SMIFISRTDLSWYRLGKPSKIYAPWVKPVLTARVGIISITLFLRVSRVARSLSFADVTKRISGLQANDKAVISSLAA

550 560 570 580 590 600 610 620 630 640
AT5G49160_MET1 AVERYVVHGQIILQLFAVYFDDNKKRQCFVVGTAASKLEDRHHTKWIKKKISLREL.NLNPRAGMA...PVA SKRKAMQATTRLVNRRIWGEYYSNYS
29983.m003308_MET1 TVERYVVHGQIILQLFAEFPDEKIKKCAFAVVGTAASKLEDRHHTKWIKKKILQKNQPNLNPRAAAMSSMAPVVS KRKAMQATTRLVNRRIWGEYYSNYS
29609.m000606_MET1 BVERYVVHGQIILQLFSEFPVKAIQNCFVVTGTAASKMQINHTKWLKRVKRLVLRGL.NLNPREAVA...TISERKAMQATTRLVNRRIWGEYYSNYS

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AT5G49160_MET1 PEDPLOATAAENGEDEVEFEGNGEVEFEEENGLTETVPEPEVQKPHPKKIRG.SSGKREIKWDGESLGTSAAGEPLVQALVCEMVAVVGAVT
29983.m003308_MET1 PEDLKBATNCEAKEE...DEV...EQEENDDAEKLLLSDKTKAKASMSS.RTKSYSKDEVLWDGNPVS KTHSGEAIWNSAIVEGVIKVAAVY
29609.m000606_MET1 PESNCA DGLIKED...DEVVEEQESEEEDSEIEEKMEIEKSKERTRSTEKLNTWQCSNQERLWVGGLLKSCTKGKAFVWKGAVGGIVADDFVM

750 760 770 780 790 800 810 820 830 840
AT5G49160_MET1 LEVDDDEMPAIFYVEYMFESTDHCMMHGRFLLQRGSMFVLGNANERELTNECMTTOLKDIKGVASFERSRPFWGHQYRKKNITADKLDWARALERK
29983.m003308_MET1 LEVDESDELPAIFYVEYMFESTSGGSKMHGRVMOHGSFTLGNANERELTNECMTTOLKDIKGVASFERSRPFWGHQYRKKNITADKLDWARALERK
29609.m000606_MET1 LGTTDADQLSPIFYVEYMFENSDMRKMAHGRKMLYGSQFVLGNANERELTNECMTTOLKDIKGVASFERSRPFWGHQYRKKNITADKLDWARALERK

BAH-I

850 860 870 880 890 900 910 920 930 940
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29983.m003308_MET1 KKGLPTEYCKSMYWPERGAFFSLPFLSDIRGSSCFCTSCKIREDEEKRSTIKLVNSKTGFFINGI EYSD EYVYVNPDSIGLKEGSKTSFKSGRNIGLR
29609.m000606_MET1 CKGLPTEYCKSYLPERGAFFCISLSDIRGSSCFCTSCKIREDEEKRSTIKLVNSKTGFFINGI EYSD EYVYVNPDSIGLKEGSKTSFKSGRNIGLR

950 960 970 980 990 1000 1010 1020 1030 1040
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29609.m000606_MET1 AYVVCQLEIIVPKESRKADLGSFVVKVRRFRYRPEVDSSKAYASDIQELIYFSQDITVLLPAGALGKCEVRKSDMPLSREYPTSDHIFFCBHLFDTSKG

BAH-II

1050 1060 1070 1080 1090 1100 1110 1120 1130 1140
AT5G49160_MET1 SLKQLPAMNPKPKFST..IKDDTLRKKKGGKGVSEISEI.VKPEVPPKEIRLATLDFIFACGGGLSGLKAGVSDAKWAIYEYEPAGBAFKQNHPESTV
29983.m003308_MET1 SLKQLPAHIKLRYSSTGTQESDAASRKKKCKCKEEDDEVEN...KREATQGRRLATLDFIFACGGGLSGLKAGVSDAKWAIYEYEPAGBAFKQNHPESTV
29609.m000606_MET1 TIKQLPAHIKLRSSSKERMNDLILYRKKKCKCKEEDDEVEN...KREATQGRRLATLDFIFACGGGLSGLKAGVSDAKWAIYEYEPAGBAFKQNHPESTV

1150 1160 1170 1180 1190 1200 1210 1220 1230 1240
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29983.m003308_MET1 FVNDNCNVILRAEMKCGDQDDCVSTTEANELAAKLTIEQKSTLPLFGQVDFINGGPPCQGFSGMNRFSQSSWSKVQCEMILAFLSFADYFRPKVFLLENV
29609.m000606_MET1 LINDNCNVILRAEMKCGDQDDCVSTTEANELAAKLTIEQKSTLPLFGQVDFINGGPPCQGFSGMNRFSQSSWSKVQCEMILAFLSFADYFRPKVFLLENV

1250 1260 1270 1280 1290 1300 1310 1320 1330 1340
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VII

VIII

1350 1360 1370 1380 1390 1400 1410 1420 1430 1440
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29983.m003308_MET1 TIGDLFVSENGDSRTNKEYKEVAVSWFQREIRGNTIALTDHISKAMNELNLIRCKIIPTRPGADWHDLPKRVKLSLSDGRVEEMIFCLPNTAERHNGWK
29609.m000606_MET1 TIGDLFVSENGDSRTNKEYKEVAVSWFQREIRGNTIALTDHISKAMNELNLIRCKIIPTRPGADWHDLPKRVKLSLSDGRVEEMIFCLPNTAERHNGWK

1450 1460 1470 1480 1490 1500 1510 1520
AT5G49160_MET1 LYGRLDWQGNFPTSVDTPQPMGKVGCMCFHPEQDRILTVRECARSGQFSDSYKFAAGNIHKHROIGNAVPPPLAALGKRLKEALHLLKKS.....
29983.m003308_MET1 LYGRLDWQGNFPTSVDTPQPMGKVGCMCFHPEQDRILTVRECARSGQFSDSYKFAAGNIHKHROIGNAVPPPLAALGKRLKEALDGRLLK.....
29609.m000606_MET1 LYGRLDWQGNFPTSVDTPQPMGKVGCMCFHPEQDRILTVRECARSGQFSDSYKFAAGNIHKHROIGNAVPPPLAALGKRLKEAVEMKRSLSVRCICNYCT

IX

X

1 10 20 30 40
AT5G14620_DRM2 MVIWNN.DDDDFLEIDNFQSSPRSSP. IHAMQCRVENLAGVAVTTSSLSSP.
AT5G15380_DRM1 MVMSHIFLISQIQEVEHGDSDDVNWN. TDDDELAIDNFQ. FSPSPVHIS.
29917.m001982_DRM MGVIIVYCFRITTCCKPVYMEHKTLYLEILGIAVASKEMDGDSDFCGEGDNFDWSEDEREIEENFGLTNSCLAVPAVEATARSVEKCLMG
29631.m001043_DRM MDR. FLSLVN VLLKHVT.
29889.m003366_DRM MQLISFSNSNAVLWSLTAEASGHDKMRKVHNG. ETSSNQKTTVPKPEMLDFDFPSDFIYS.

50 60 70 80 90 100 110 120
AT5G14620_DRM2 TETTDLVQMGFSDEVFA TLFDMGFPVEMISRAIKETG.PNVEETSVI I D TISKYS SDCEAGSSKSKAIDHFLA.
AT5G15380_DRM1 ATSPNSIQNRISDETVASFVEMGFSTQMIARAIEETAGANMEPMMIL E TLFNYS ASTEASSSKSKVINHFIA.
29917.m001982_DRM FSCILRHASSSSVRSSGTKVMDHFVGMGFPEKMAEA IQENGEENAD. LILETLLKFSTISSPSSGSKLIDHFVG.
29631.m001043_DRM LKRQNSILRS. QAN. SLTGCS SRMVHQFVN.
29889.m003366_DRM SQLGE TAASSSASDVRS FLTGMGFLPSLVDKV IQENGEDNVD. LLEILMECS DPQKSN SQSSDSLDTL FNDKDASNPPEYSK

UBA-I

130 140 150 160 170 180
AT5G14620_DRM2 MGFDEEKVVKAIQEHGEDNMEA IANALLS CPEAKKLPAAVEEEDGIDWSSSDDDTNYTDM LNSDD
AT5G15380_DRM1 MGFPEEHVIKAMQEHGEDVDGEITNALLT YAEVDKLRSEDMN. ININDDDDDNLYS. LSSDD
29917.m001982_DRM MGFVEMVDRAIQENGE EKTD SILETLLT YSVIEKSHQE QPHVDS DHWSSEYEGSFLNDFSDIDS
29631.m001043_DRM MGFSEKLVMAIDENGEDE.AS ILDSLLT YSLRKE.
29889.m003366_DRM FGQPKEEPDVFGFDDSKRASLLHMNFSAE EVDFAMEKLGTDAPVDEIVDFIT AAQVAANFDEERDDELEHDVEQNKYCSRHSRMNPSH

UBA-II

190 200 210 220 230 240 250
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AT5G15380_DRM1 EEDELNNSN. EDRILQALIKMGYLREDAAI AIERCGEDASME EVVDFICAA QMAR. QFDEIYAEPDKKELMNN
29917.m001982_DRM SENEENGKSPVEGN TLRFLARMGYTTDEASI ALERCGPDANIA ELTDFICAA QMAKAADASFPEEKPKIRHFDDY PKNKKNRYAEY
29631.m001043_DRM
29889.m003366_DRM VARGGESFNMEIRDE QRRDSYGRKKPENLSQE AVSRSSNLNLEE IHRGKRPKQ EYTEG. YSNTQDEHFGFEENYE

USA-III

260 270 280 290 300 310 320 330
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AT5G15380_DRM1 N. KKRRTYTET.PRKPNTDQLIS LPKEMI GFGV P N HP GLMMHR PVPIPDIA AR GPPFFFYENVAM T PKGVWAK ISSH LYDI V PEFVDS
29917.m001982_DRM DMW KK KKQMKLDKLLNGDDELIR LPNP ML GFGV P T DP AIVTHR. KLPEA AL GPPFFFYENVAL A PKGVWQT ISRF LYDV E PEFVDS
29631.m001043_DRM RSS KS QESKRKAKNFLERNR TLH LPNP MI GFGI P H EP WKITER. KLHP IA V GPPYFYENAA L T PKGVWSK ISSF LYDI Q PEFVDS
29889.m003366_DRM EEGP K PEYTADSSFSFESAWVEEK VDT EIT GFRI P R EP KFKSCK. SVDRMVA K P P Y F L Y G N V A T V S L D T W G K I S Q F L Y A V E P E F V N T

VI

340 350 360 370 380 390 400 410 420
AT5G14620_DRM2 K Y F C V A A R K R G Y I H N L P I N N R F Q I Q P P P K Y T I H D A F P L S K R W W P E W D K R T K L N C I . L T C T G S A Q L T N R I R V A L E P Y N E E P E P P K H V Q R
AT5G15380_DRM1 K H F C A A A R K R G Y I H N L P I Q N R F Q I Q P P Q H N T I Q E A F P L T K R W W P S W D G R T K L N C L . L T C I A S S R L T E K I R E A L E R Y D G . . E T P L D V Q K
29917.m001982_DRM K Y F C A A A R K R G Y V H N L P I Q N R Y P L L P L P P N N I H E A L P L T K R W W P S W D T R T K L N C L . Q T C V A S A K L T D R I R K A L E D Y E G . . E P P L S I R K
29631.m001043_DRM I Y F C A A A R K R G Y V H N L P I Q N R F P L L P R P P L T I H E V L P S T E K W W P S W D K R T K L N C L . L T S Y G N A K L T E C I R K A L E D C D G . . E P T L R A K K
29889.m003366_DRM Q F F S A L S R K E G Y V H N L P T E N R F H I L P K P P M S I L D A M P H I K K W W P S W D T R K Q L S F I N Y E T N G L S Q L C D R L G R M L T D S R G . . L I S S Q Q K R

430 440 450 460 470 480 490 500 510
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29631.m001043_DRM Y V L E Q C K R W N L V W V G K N K V A P L E P D E M E M L L G F P K D H T R G G G I N R N D R Y K A L G N S F Q V D T V A Y H L S V L K N L F P Y G I T V L S L F S G I G G A
29889.m003366_DRM D I L H H C H K L N L V W V G L H K V R P I E P E H L E L I L G Y P L N H T Q T T E G S L T E R L H A L R Y S F Q I D T L G Y H L S V L K S M F P E G I T V L S L F S G I G G A

IX

X

I

520 530 540 550 560 570 580 590 600
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AT5G15380_DRM1 E V A L H R L Q I K M N V V V S V E I S D A N R N I L R S F W E Q T N Q K G I L R E F K D V Q K L D D N T I E R L M D E Y G G F D L V I G G S P C N N L A G G N R H H R . . V G
29917.m001982_DRM E V A L H R L G I R L K R V V S V E I S E V N R N I M R C W W E Q T N Q T G T L I D I A D V H D L N A D R L E Q L M S S F G G F D L V V G G S P C N N L A G S N R H H R . . D G
29631.m001043_DRM E V A L H R L G I P L N S V V S V E I S E V N R N I P R S W W E Q T N Q K G Y L I E I G D V R E V D G D S I K R W I K L F G G F D L V I G G S P C N N L A G A N R R N R . . D G
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II

III

IV

610 620
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AT5G15380_DRM1 L G G E H S S L F F D Y C R I L E A V R R K A R H M R R
29917.m001982_DRM L E G K E S S L F F D Y C R I L D L V K C I M T R N
29631.m001043_DRM L E G E Q S S L F Y D Y Y R I L K L V R D T F G E I M D S E I L N R I L S Y P D L
29889.m003366_DRM R S A L D F S L F C E F V R V L Q R V R T Q V Q R K R

V

AT5G25480_DNMT2
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1 10 20 30 40 50 60 70 80
 MAEQE LQRI NEKK PWQ VLEFYSGIGGMRYSLMAS GIVSE VVEAFEINDS ANDVYQHNF KHRPYQGNIQSLTAADLDKYNADAWLLS
 MEAGF VKGNE . . PWR ILEFYSGIGGMRYSLMKA GVN AKVMEAFDINNI ANDAYE HNF GHRPYQGNIQSLTAADLD SYAAHAWLLS

I III

90 100 110 120 130 140 150 160 170
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IV VI VIII

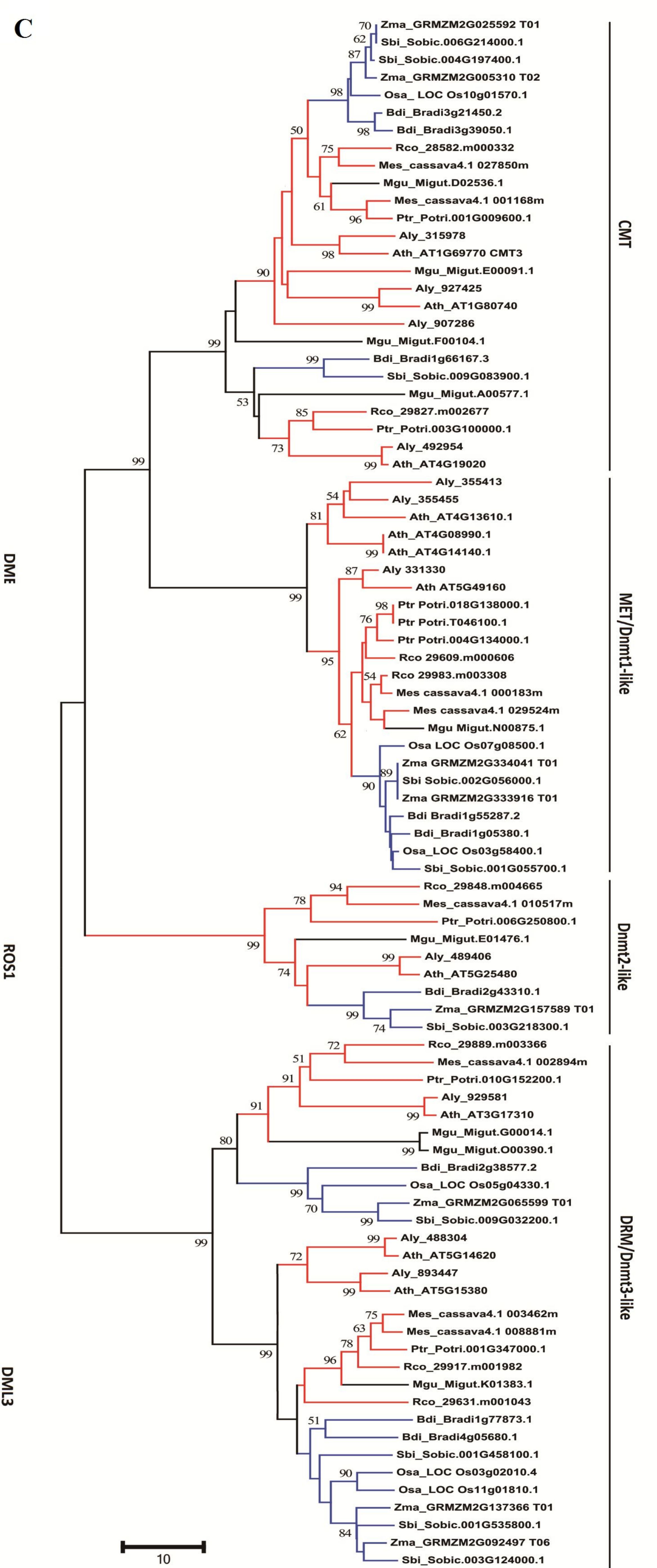
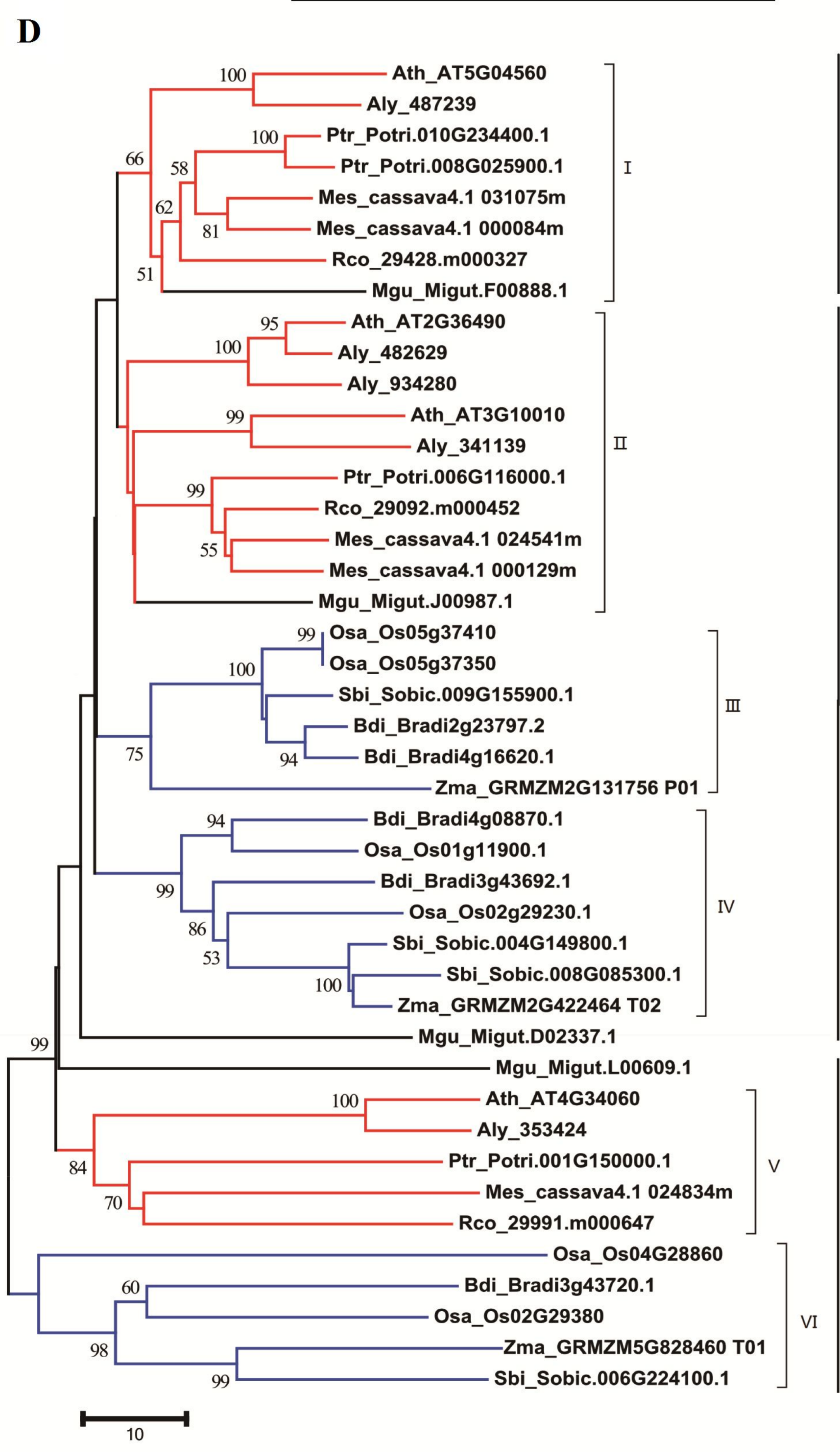
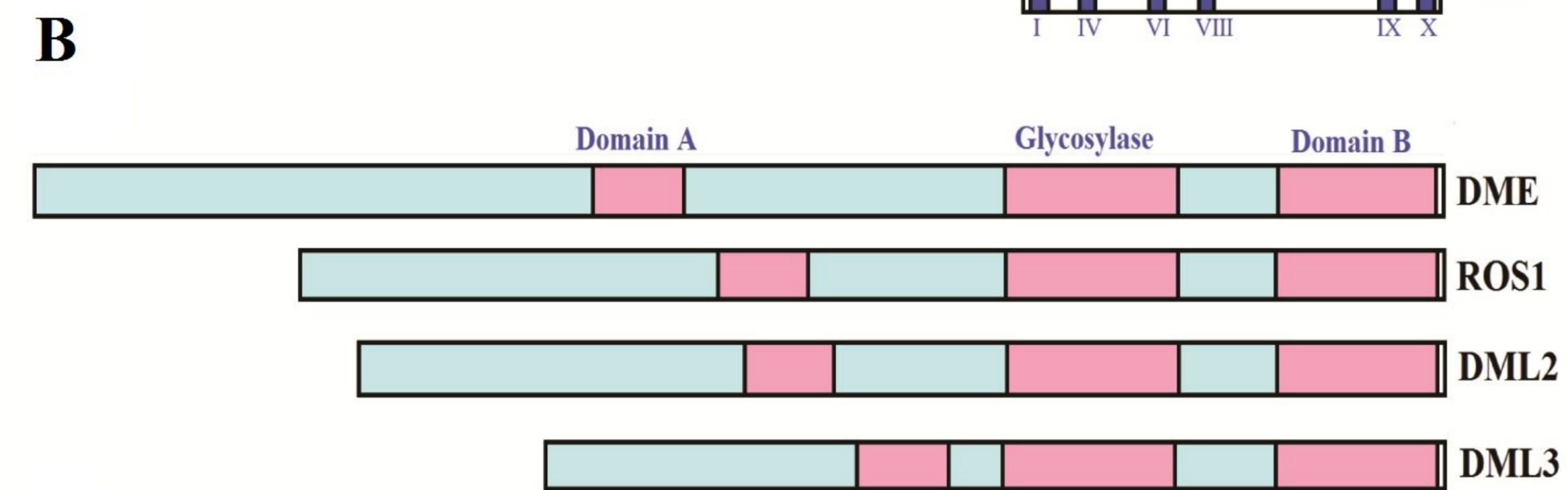
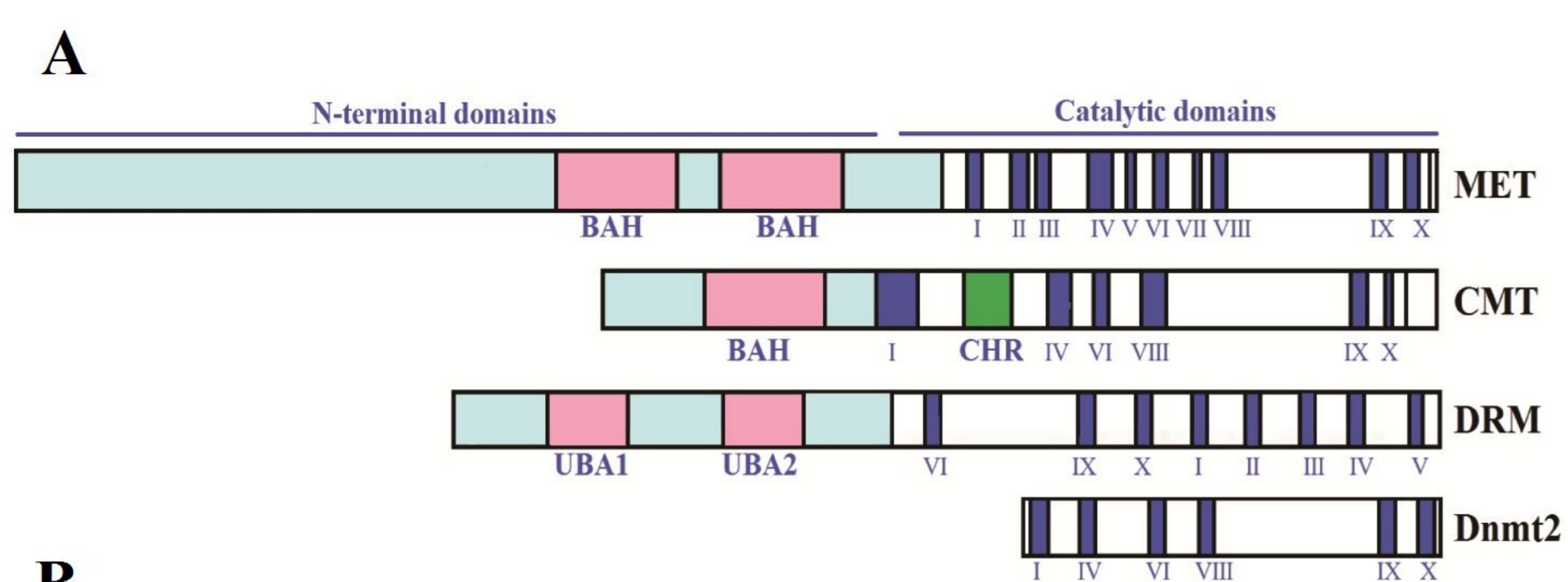
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260 270 280 290 300 310 320 330 340
 CGQE GDSVPD SVH OYLVP VSLIERWGNAMDIVYPDSK RCCCFTKSYYRYVKGTG SLLATVQPK IKGK E SCLKEQR LRYFTPREVAN
 EN . T GEGNLT TMD QYI VPS N LIERWGSAMDIVYPDSN RCCCFTKSYYRYVKGTG SLLATVQPK EKGK TSSLHEKG LRYFTPREVAN

CTF

350 360 370 380
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X



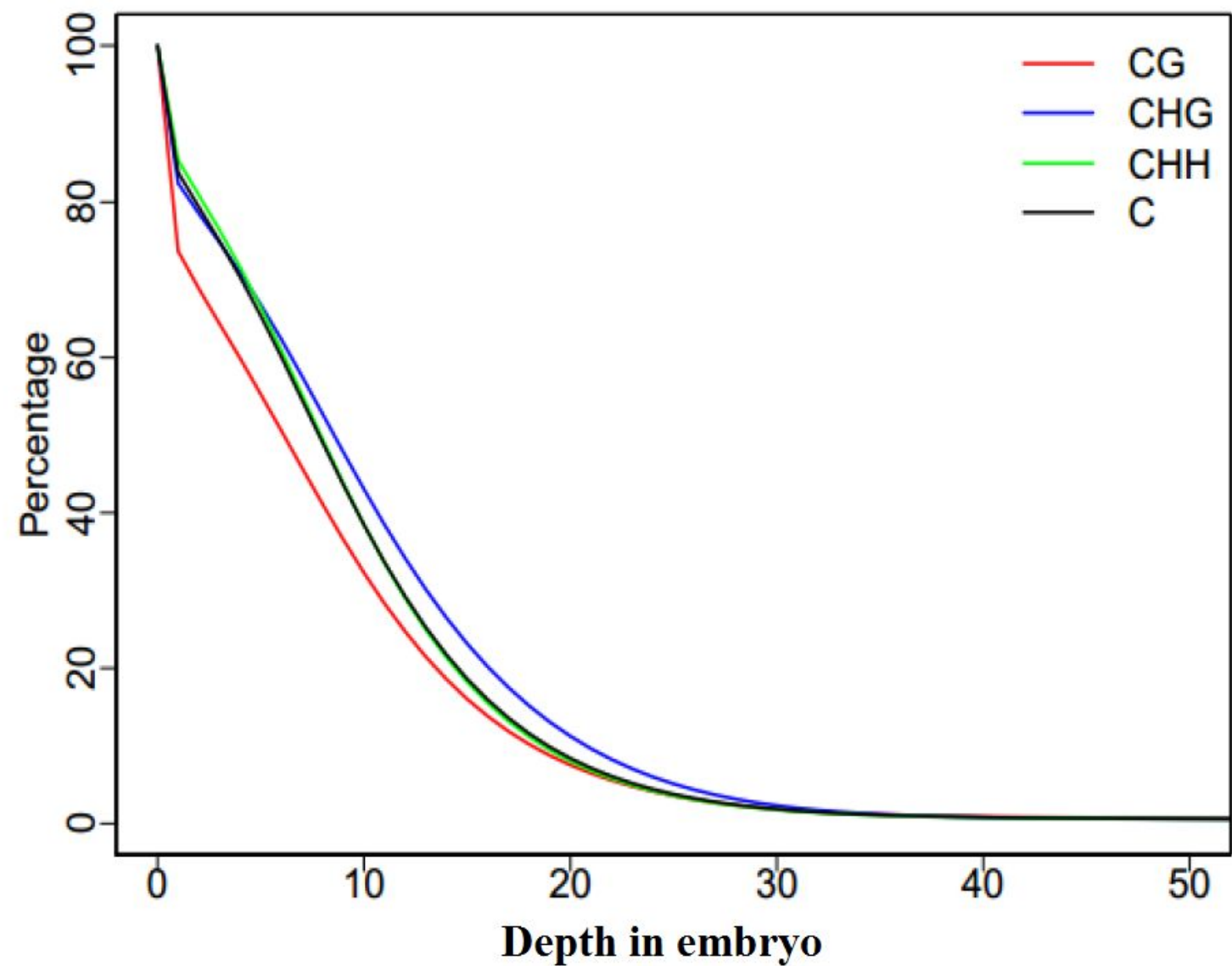
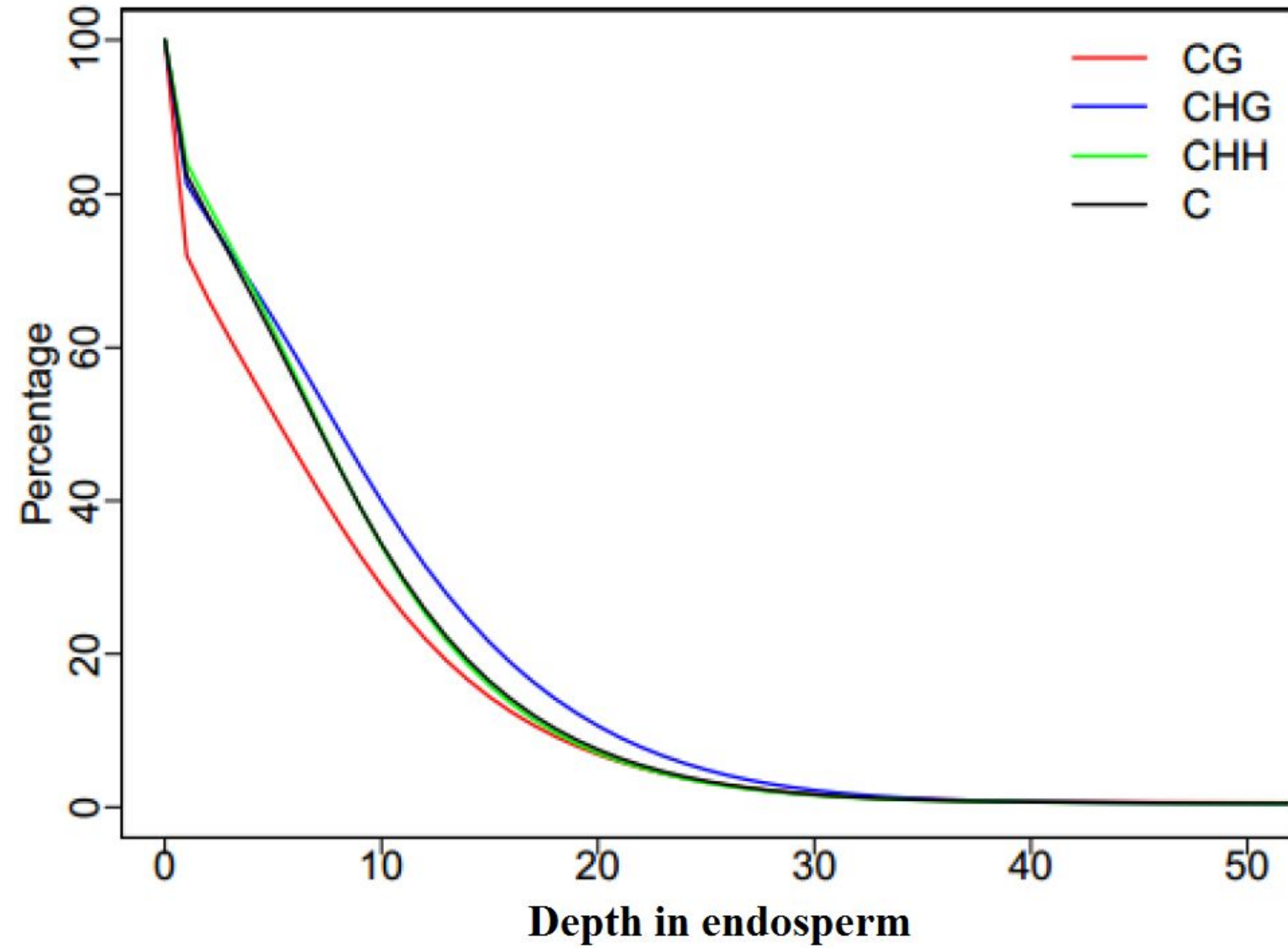


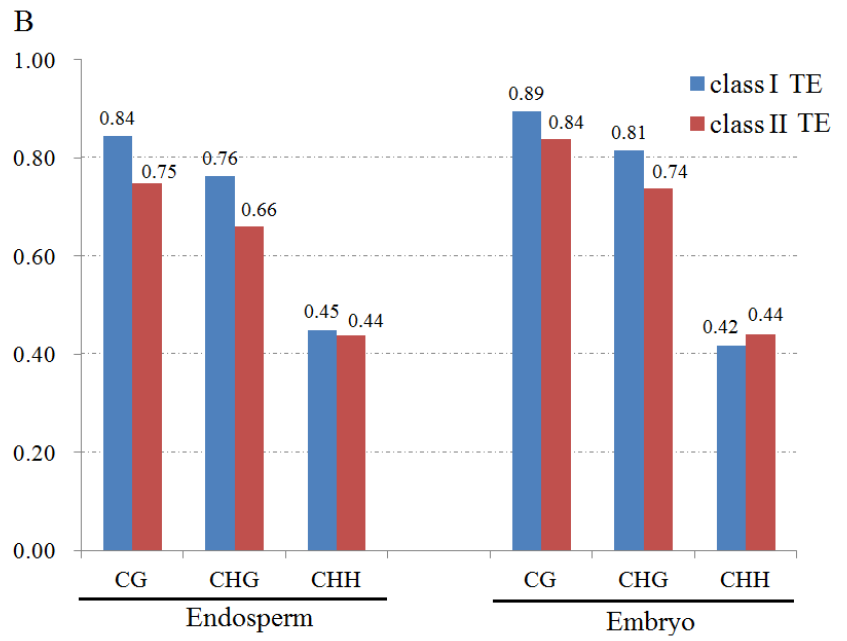
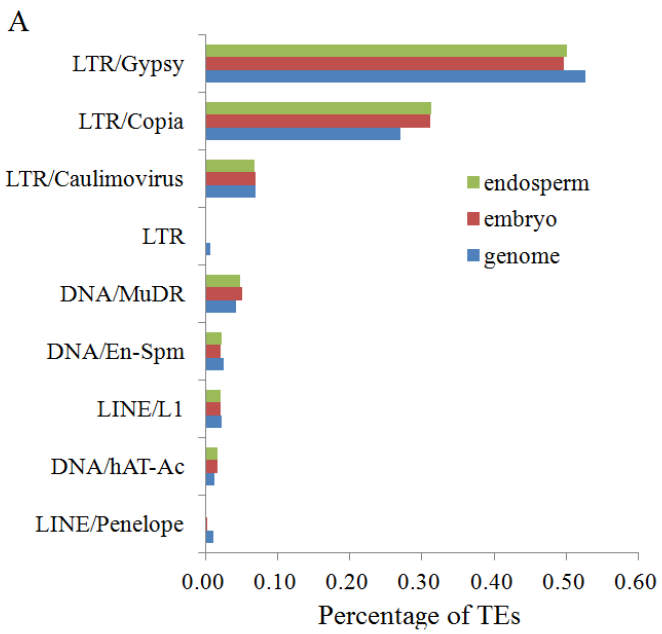
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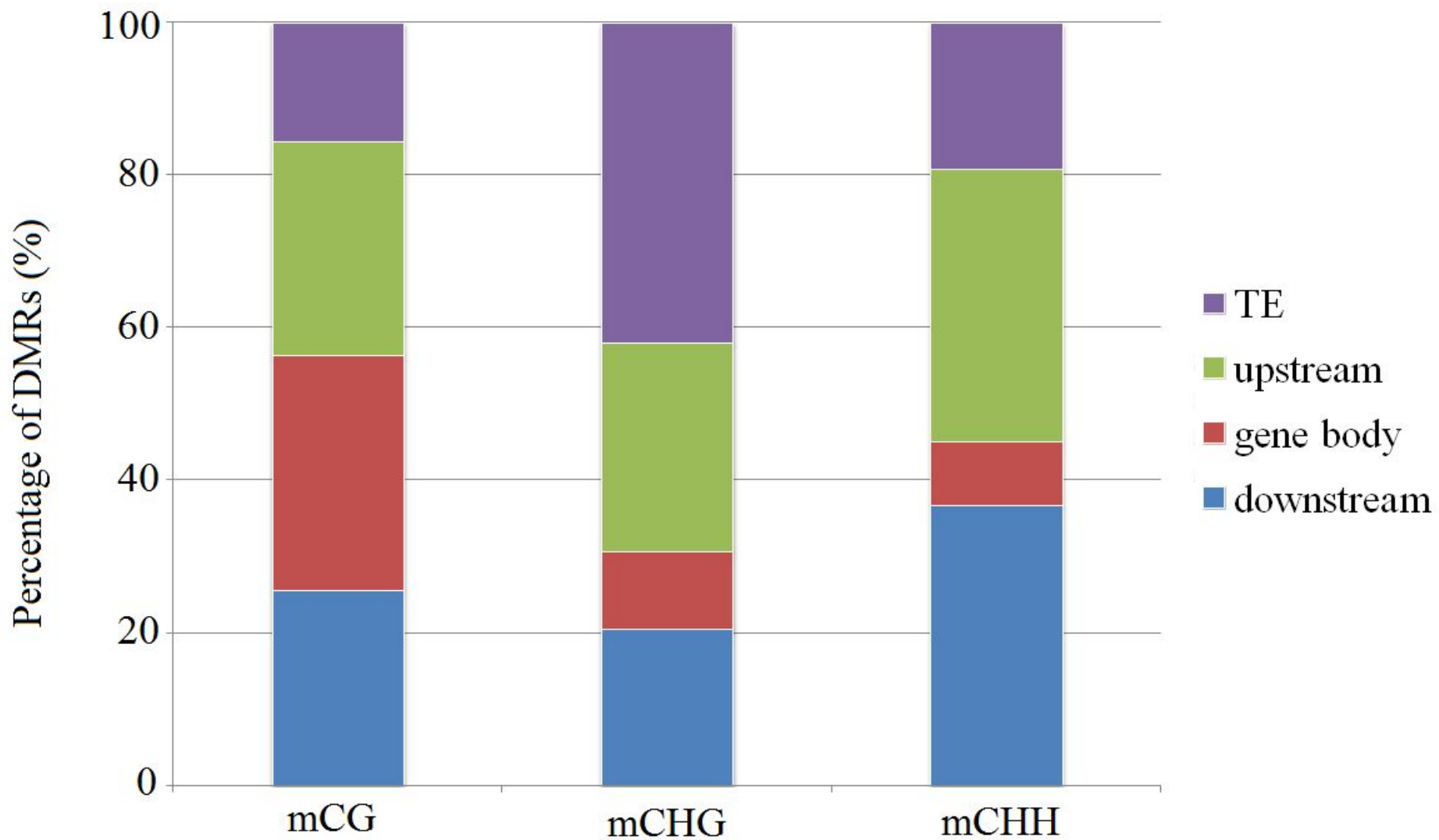
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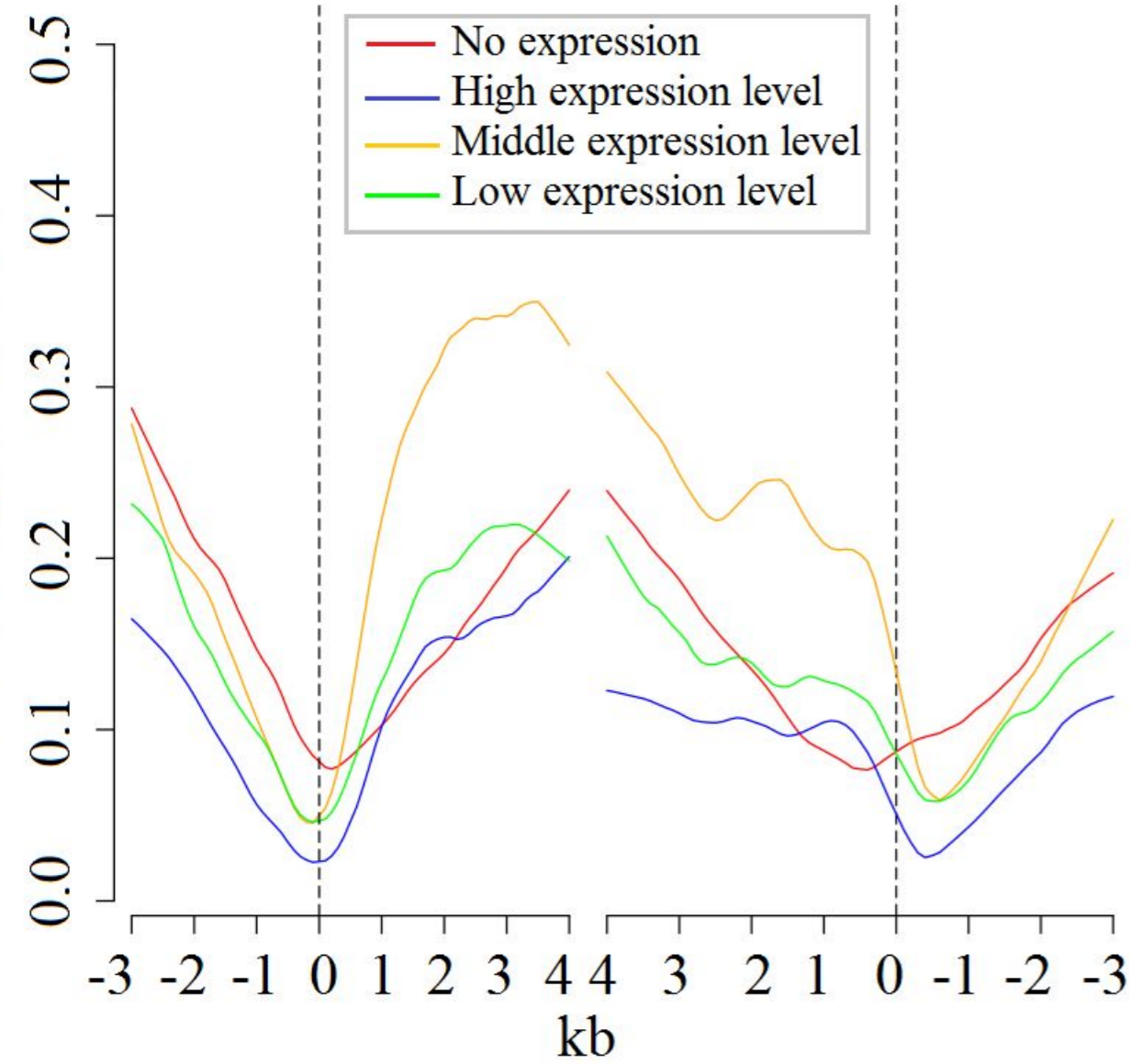
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(a)**(b)**

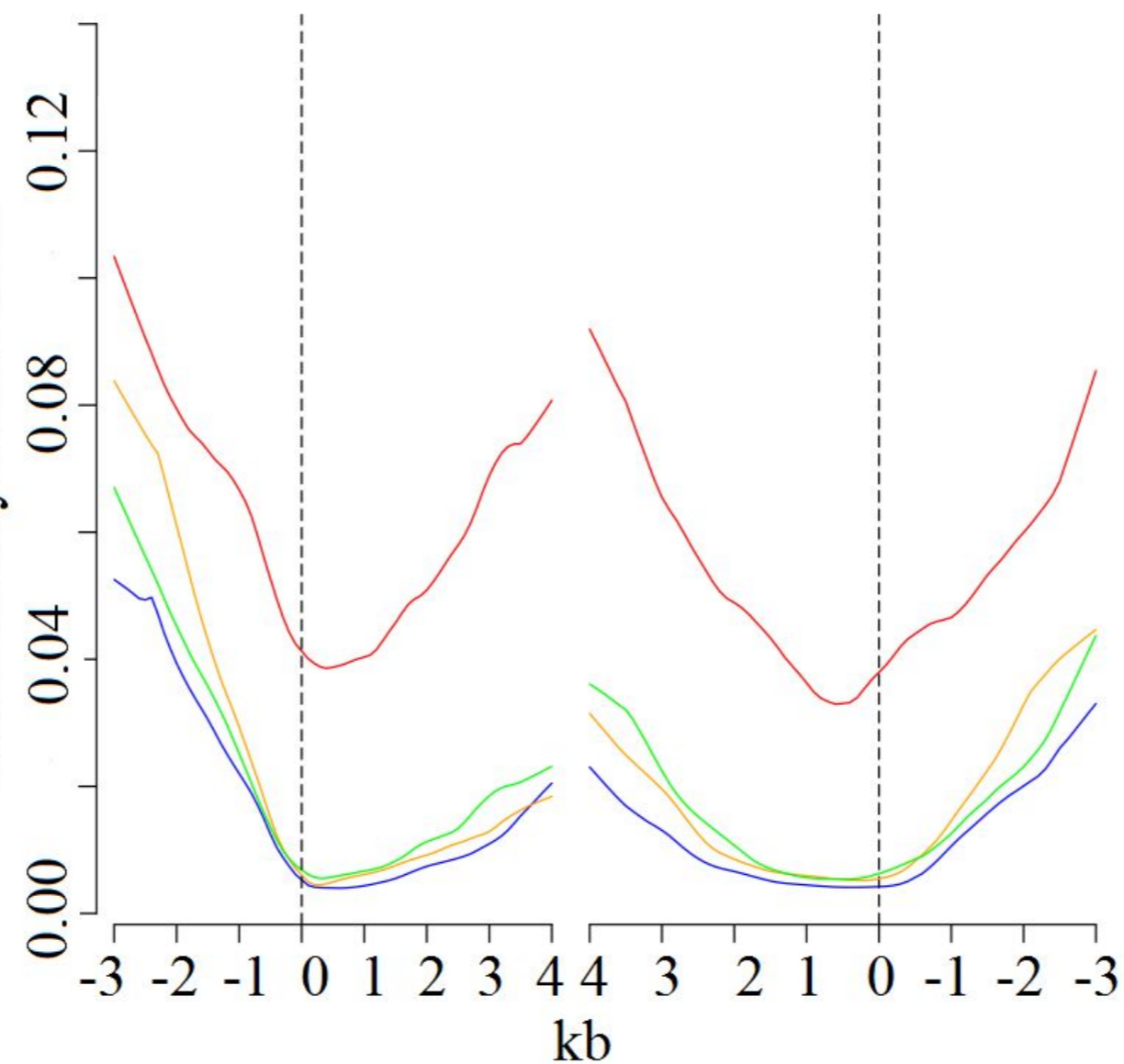




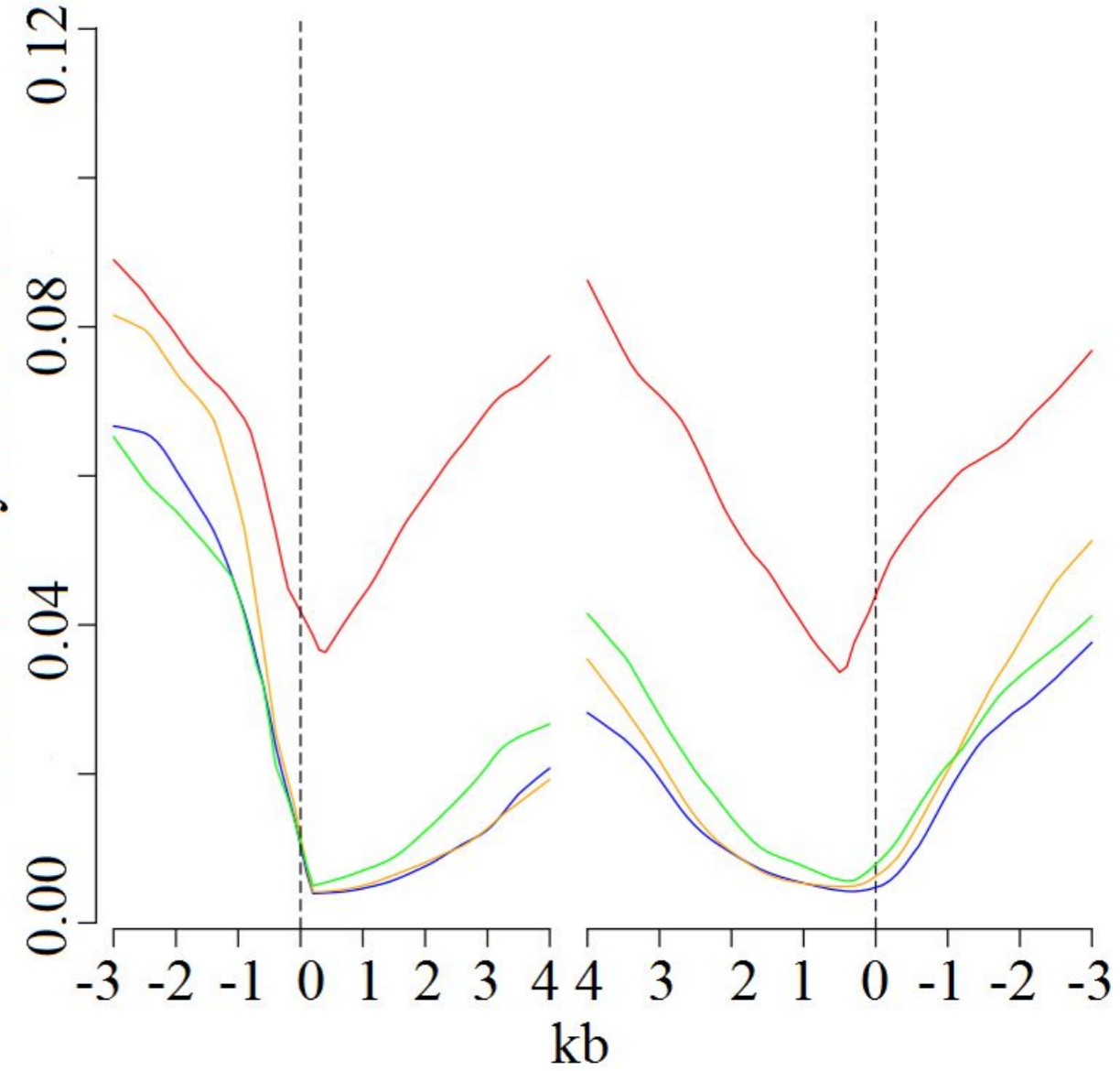
CG methylation level



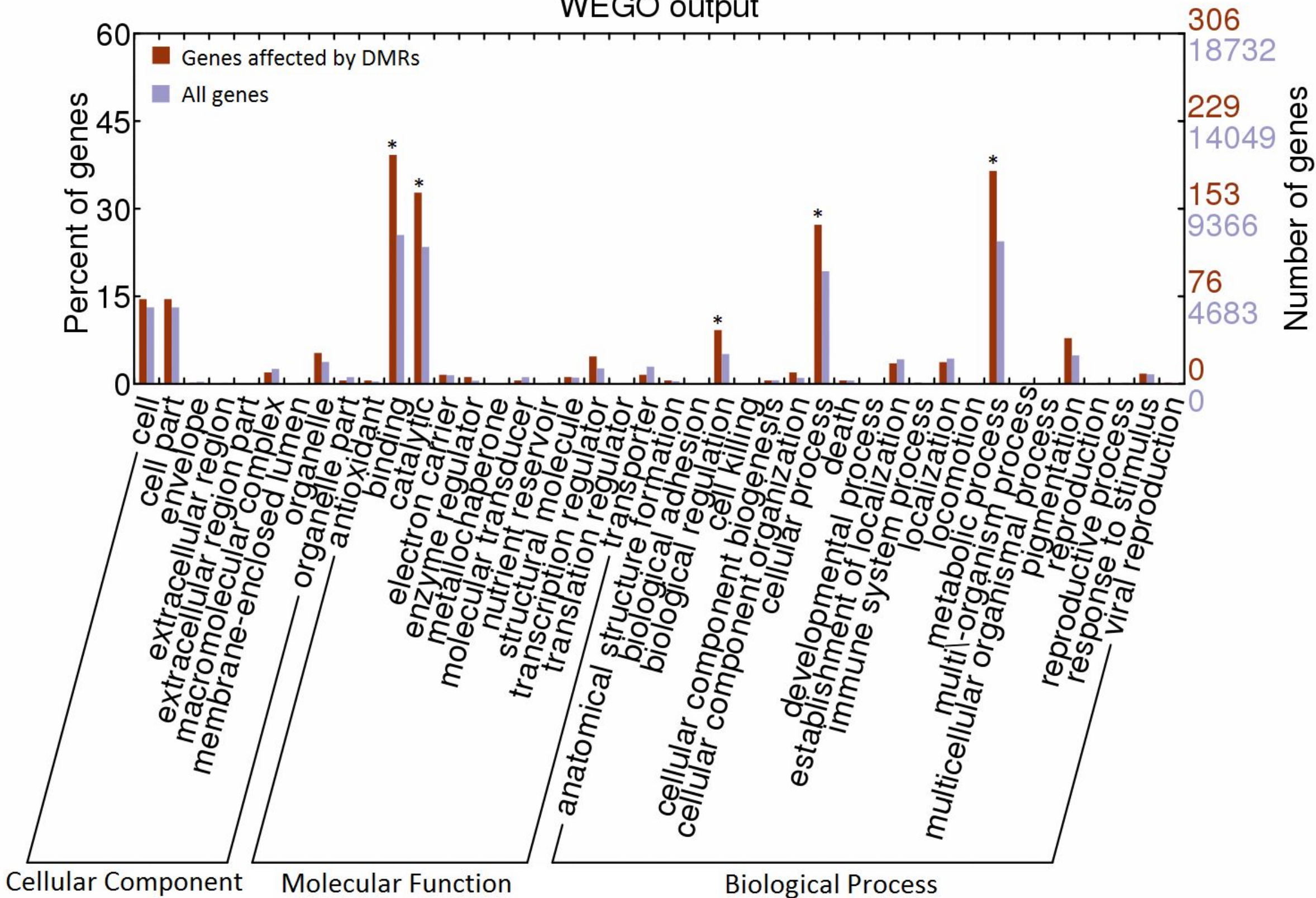
CHG methylation level

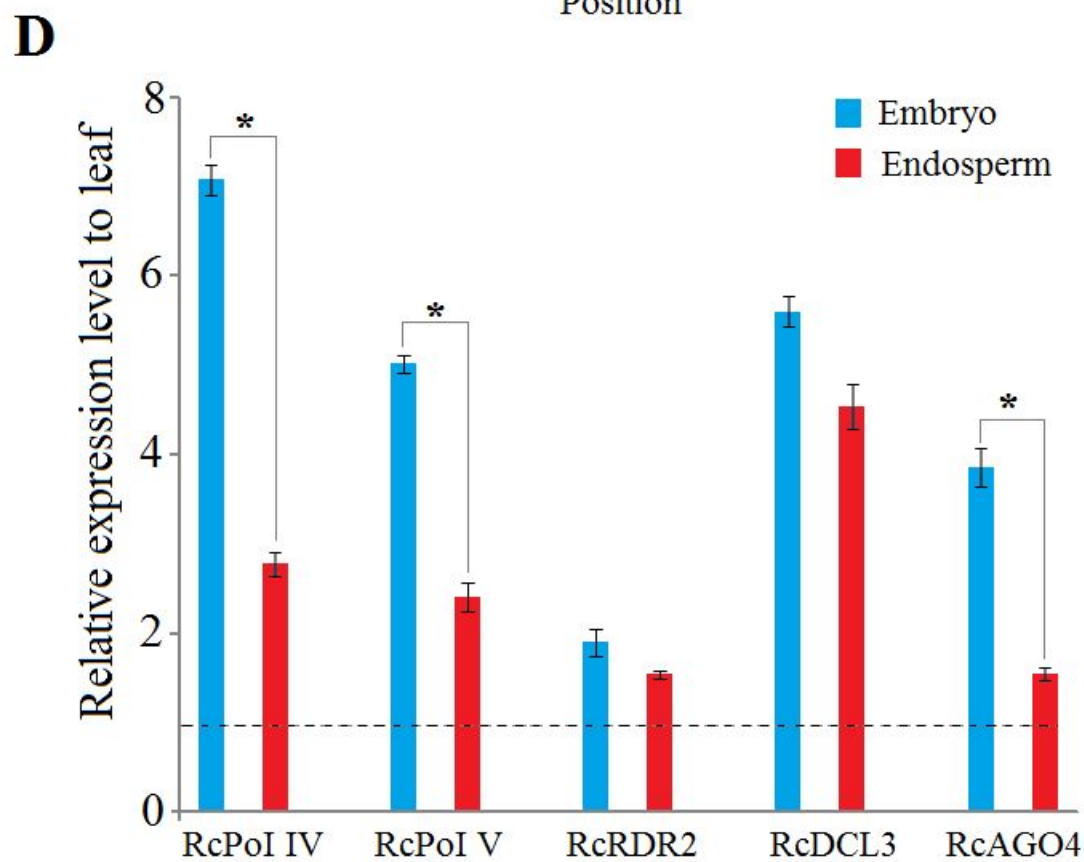
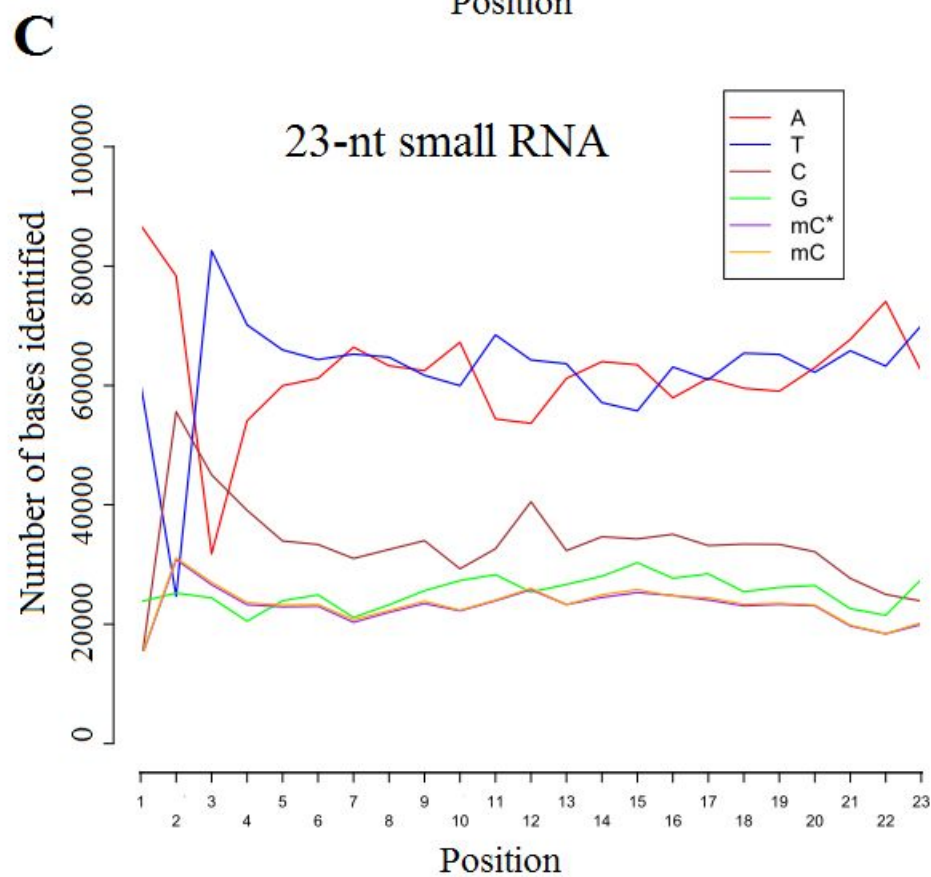
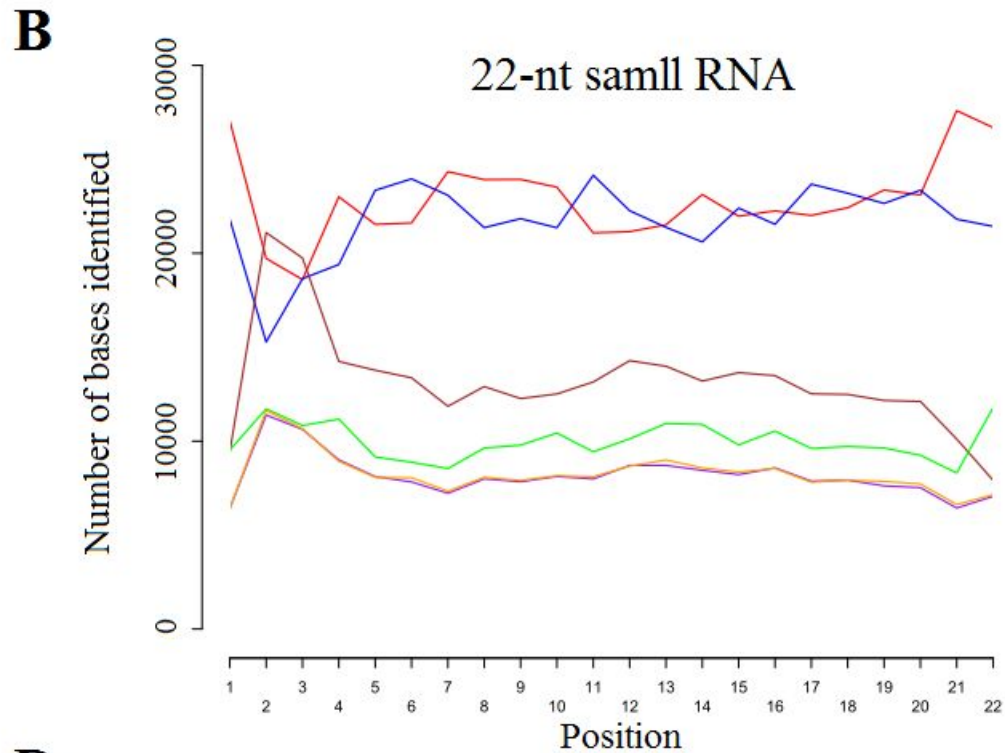
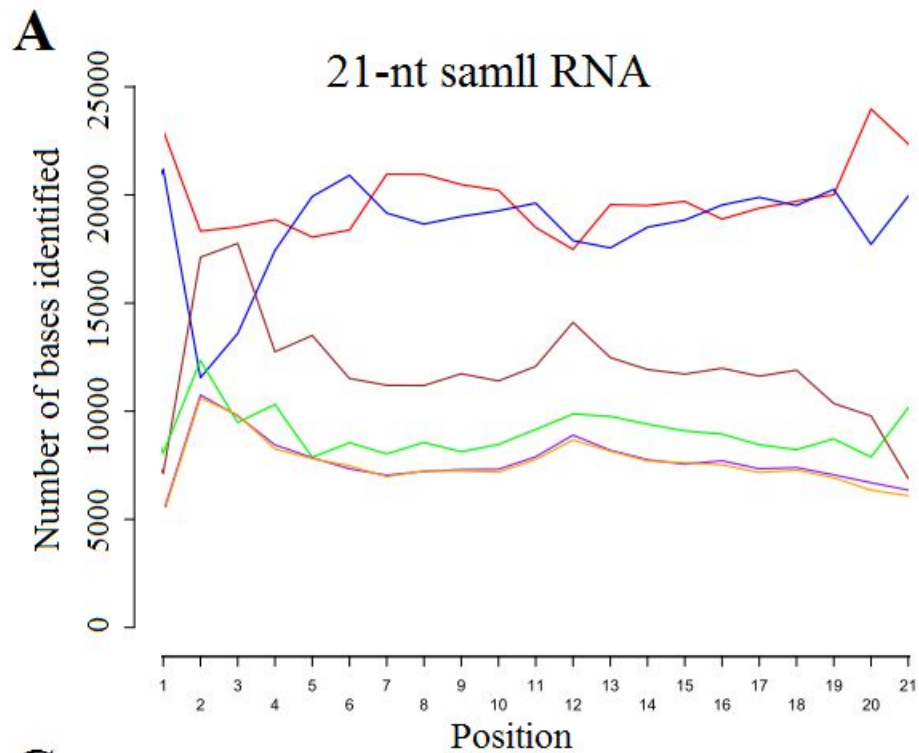


CHH methylation level



WEGO output





1 **Supplemental Table S1.** Information on bisulfite sequencing data.

Tissues	Total reads	Total nucleotides	Q20 percentage	Mapped ratio	Coverage
embryo	119,977,144	10,736,663,895	99.43%	88.00%	30.8
endosperm	120,916,496	10,882,484,640	99.41%	88.00%	31

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4

1 **Supplemental Table S2.** The percentages of CG, CHG and CHH in genomes of
2 *Arabidopsis* (*At*), rice (*Os*), maize (*Zm*) and castor bean (*Rc*).

Species	Genome size (Mbp)	C count	CG(%)	CHG(%)	CHH(%)
Rc	230	114,034,816	10.9	14.0	75.1
At	120	42,859,753	13.0	14.2	72.8
Os	420	163,079,918	19.0	16.8	64.2
Zm	2,045	959,794,792	18.7	16.4	64.9

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Supplemental Table S3 Substantial differentially methylated regions in

Scaffold	Start	end	P-value	DNA methylation level in embryo
27373	92394	92690	6.59E-17	0.92
27373	97175	97707	1.63E-48	0.96
27375	13633	13876	1.03E-04	0.8
27375	55132	55334	8.11E-05	0.83
27375	58434	58766	1.87E-05	0.84
27375	72192	72469	7.50E-08	0.83
27375	72231	72502	1.98E-08	0.83
27383	4323	5312	3.35E-16	0.76
27383	14245	14777	2.63E-63	0.75
27383	21664	22238	1.31E-40	0.84
27383	42895	43304	3.84E-23	0.79
27383	43868	44484	4.85E-39	0.9
27383	46548	47266	1.97E-20	0.76
27383	49978	50727	6.60E-32	0.77
27388	1287	2080	2.96E-29	0.66
27389	12969	13393	6.67E-17	0.76
27389	14992	16036	1.78E-52	0.88
27389	23591	24243	4.05E-18	0.83
27394	18139	19338	1.61E-68	0.87
27394	22998	23410	5.27E-28	0.84
27394	24651	25291	2.06E-21	0.66
27394	34616	34825	2.82E-09	0.67
27394	41041	41779	4.36E-47	0.83
27394	42539	43297	1.21E-77	0.88
27394	43520	43863	6.48E-12	0.73
27394	44074	44489	2.19E-08	0.97
27394	44732	45470	5.07E-19	0.75
27394	55890	56622	4.97E-44	0.65
27394	104587	104965	1.71E-19	0.85
27394	108243	109177	9.36E-43	0.84
27394	125345	125615	4.01E-29	0.93
27394	126360	127367	5.84E-61	0.9
27394	128473	129233	3.45E-32	0.84
27394	129589	129986	2.20E-19	0.89
27394	143895	144247	4.26E-30	0.83
27394	164833	165146	7.96E-24	0.84
27395	6048	6487	3.67E-61	0.87
27395	9041	9408	1.40E-23	0.85
27395	9773	10557	2.24E-20	0.77
27395	10769	11380	6.26E-13	0.77
27395	25806	27801	3.46E-53	0.78
27395	29582	29902	5.38E-09	0.77
27400	11281	11747	1.34E-03	0.93
27401	8872	9318	3.64E-20	0.8
27401	11653	11948	7.65E-09	0.8
27401	16234	16819	4.05E-46	0.85
27401	17143	18030	8.96E-41	0.86
27401	18497	18747	4.73E-13	0.82
27401	79769	80276	9.28E-31	0.93
27401	92315	93696	1.94E-47	0.65

27401	94015	94627	1.61E-62	0.88
27401	106016	107427	1.75E-232	0.91
27401	107645	108506	4.14E-95	0.94
27404	14402	14825	4.11E-27	0.96
27404	34697	35070	7.47E-15	0.83
27404	34852	35083	8.96E-15	0.81
27415	28054	28765	3.81E-05	0.76
27416	1062	1677	2.26E-05	0.85
27417	10339	11031	1.74E-13	0.86
27417	12030	12381	2.02E-12	0.91
27421	12749	13295	9.65E-09	0.9
27428	113	554	2.07E-21	0.92
27428	2778	3182	1.78E-15	0.78
27428	11224	11668	1.92E-30	0.93
27428	16235	17487	1.40E-82	0.87
27428	22225	22903	2.35E-50	0.69
27428	23115	24246	3.92E-52	0.76
27428	48412	48843	8.16E-43	0.93
27436	35110	35516	1.30E-44	0.78
27436	35840	37115	4.26E-38	0.8
27436	47414	47618	1.26E-17	0.72
27436	81649	82115	1.07E-15	0.84
27436	85919	86431	3.84E-28	0.6
27436	87296	88181	1.50E-45	0.83
27436	88459	88809	3.66E-18	0.78
27436	101445	101984	1.07E-78	0.82
27436	106699	107485	1.05E-19	0.81
27436	153803	154397	2.32E-56	0.95
27436	154813	155467	2.07E-56	0.94
27436	156178	156835	6.83E-22	0.92
27436	167107	167556	1.66E-17	0.76
27436	185424	185630	6.79E-22	0.81
27436	189096	189399	6.54E-15	0.9
27436	199406	199657	3.39E-21	0.8
27436	199938	201012	1.71E-77	0.93
27436	201217	201601	7.15E-28	0.8
27446	34593	35614	2.92E-78	0.82
27446	38452	38781	3.43E-05	0.72
27446	62003	62419	5.78E-14	0.83
27446	63499	64352	2.17E-28	0.92
27446	66191	66440	2.80E-08	0.64
27446	71137	71638	4.84E-19	0.89
27446	72344	73272	3.38E-18	0.71
27446	103675	104027	1.02E-41	0.95
27446	106832	107650	2.36E-19	0.64
27446	112917	113618	4.26E-27	0.79
27446	115614	116314	2.32E-30	0.82
27446	117895	118738	9.86E-40	0.91
27446	125966	126196	9.61E-16	0.78
27446	126445	126896	3.47E-08	0.76
27446	127255	127556	3.39E-14	0.7
27446	148856	149092	6.18E-14	0.74
27446	166586	167327	4.38E-27	0.66

27446	175729	176415	6.37E-06	0.67
27447	163	747	1.18E-10	0.76
27448	247	2245	2.43E-103	0.92
27448	7603	7945	2.36E-19	0.88
27448	8412	8926	4.07E-38	0.98
27448	25595	26420	1.64E-58	0.78
27448	27878	29087	1.42E-53	0.81
27448	29618	30071	1.59E-22	0.6
27449	5176	5603	9.48E-05	0.85
27449	21403	21886	2.56E-23	0.86
27449	23531	23975	1.78E-06	0.97
27451	16680	17757	6.08E-34	0.71
27451	18016	18496	1.71E-35	0.7
27451	31056	31613	1.38E-19	0.84
27451	41530	41814	4.55E-37	0.92
27451	43796	44436	2.27E-47	0.94
27451	45032	46511	1.30E-71	0.96
27451	46873	47240	6.50E-20	0.8
27451	48173	48711	5.11E-10	0.72
27451	50921	51141	1.01E-20	0.65
27451	73737	74134	1.87E-08	0.7
27451	119963	120477	1.22E-17	0.83
27451	127167	127638	4.94E-46	0.93
27451	128744	128948	8.37E-18	0.9
27451	131002	131964	6.34E-55	0.92
27451	133314	134174	1.14E-29	0.84
27451	136244	136592	1.70E-21	0.92
27451	137586	138432	1.95E-25	0.88
27451	138712	138919	1.78E-18	0.89
27451	144923	145941	6.94E-99	0.94
27451	146266	146776	2.00E-56	0.95
27451	150857	151506	1.23E-84	0.94
27461	16127	16593	2.98E-15	0.88
27461	17801	18174	1.51E-33	0.94
27461	21810	22191	1.22E-15	0.81
27461	23679	24029	1.44E-16	0.81
27461	30153	30501	7.31E-06	0.77
27467	7817	8647	4.52E-30	0.93
27467	11422	11683	1.32E-40	0.96
27467	12217	12561	2.50E-38	0.95
27467	15210	16245	5.27E-71	0.96
27467	16538	17048	5.22E-37	0.95
27467	32387	32602	3.93E-05	0.95
27467	44847	45442	6.06E-71	0.93
27467	46110	46958	8.71E-134	0.96
27467	54386	55844	1.42E-36	0.65
27467	93720	94138	2.86E-14	0.93
27467	109648	109848	6.53E-14	0.87
27467	122243	122909	2.84E-08	0.76
27467	138148	139157	2.70E-85	0.92
27467	139700	140336	1.70E-47	0.93
27467	141862	142735	1.03E-38	0.72
27467	144586	145282	1.06E-21	0.75

27467	147922	148881	6.25E-58	0.94
27469	16815	17180	1.78E-10	0.9
27469	36630	37143	1.70E-38	0.91
27469	37850	38106	3.88E-17	0.77
27471	1882	2443	1.05E-24	0.88
27471	14163	14513	3.60E-34	0.88
27471	30094	30327	3.81E-11	0.95
27471	46383	47592	1.19E-22	0.8
27471	49259	49636	1.27E-24	0.92
27471	55967	57130	7.86E-43	0.7
27471	71864	72487	8.44E-17	0.76
27471	89067	89278	1.98E-11	0.75
27471	92205	92654	5.91E-23	0.83
27471	94273	94484	4.83E-42	0.91
27471	100907	102082	4.05E-54	0.84
27471	122257	122459	7.98E-11	0.93
27471	153597	154386	7.42E-37	0.83
27471	166099	166326	3.90E-25	0.83
27482	33952	35220	3.54E-85	0.87
27488	2461	4383	1.26E-102	0.89
27488	31168	31878	1.73E-06	0.85
27492	1931	2499	3.00E-17	0.89
27496	10782	11467	1.25E-25	0.85
27496	11730	12114	1.27E-33	0.86
27496	17282	18137	6.48E-54	0.88
27496	19266	19890	5.69E-20	0.81
27496	20239	20707	2.66E-37	0.92
27496	40227	40594	1.36E-13	0.92
27504	69154	69500	3.87E-10	0.67
27504	69899	70883	1.36E-43	0.83
27504	94253	94822	1.70E-72	0.93
27504	110334	110942	2.89E-32	0.72
27504	111174	111711	3.28E-29	0.66
27504	140763	142060	1.50E-64	0.77
27504	156926	157907	1.45E-35	0.73
27504	158188	158686	3.37E-22	0.85
27504	159549	159923	1.28E-13	0.67
27504	160384	160606	2.51E-16	0.86
27504	172703	173572	1.29E-49	0.77
27504	256333	256649	2.50E-38	0.96
27504	256939	257293	1.75E-24	0.82
27504	265703	266333	5.45E-27	0.78
27506	13691	14089	8.47E-45	0.93
27506	14304	14626	7.87E-53	0.94
27506	37646	38007	9.41E-14	0.78
27506	39353	39779	1.71E-61	0.94
27516	75	542	1.50E-12	0.75
27516	4117	4485	4.04E-14	0.85
27516	6235	6793	6.55E-30	0.94
27516	17034	17538	3.83E-19	0.87
27516	28044	28551	3.12E-14	0.82
27516	29281	30160	6.80E-29	0.89
27516	38574	38890	1.53E-30	0.77

27516	42355	43220	9.42E-38	0.89
27516	46911	47406	9.05E-42	0.89
27516	49383	49659	3.01E-10	0.84
27516	55237	55455	1.27E-09	0.65
27516	55762	56724	2.03E-79	0.92
27516	74029	74304	7.78E-19	0.79
27516	76090	77103	4.00E-31	0.67
27519	35859	36177	1.88E-13	0.82
27519	75171	75468	1.74E-11	0.93
27519	75919	76195	8.12E-07	0.87
27519	138022	138439	9.77E-12	0.76
27519	161638	162167	1.11E-13	0.88
27519	168697	169083	4.55E-05	0.81
27524	23647	24007	3.10E-12	0.83
27524	122238	123133	1.12E-36	0.75
27526	24797	26215	1.98E-70	0.86
27526	36690	37447	6.48E-56	0.9
27526	37956	38620	4.68E-19	0.84
27526	40304	40619	4.45E-35	0.8
27526	40822	41265	8.05E-55	0.94
27526	53888	54525	4.19E-15	0.68
27529	10035	11172	2.96E-75	0.92
27529	12561	14163	2.04E-115	0.94
27529	15122	17014	4.22E-88	0.7
27529	20920	21470	3.70E-32	0.85
27529	24502	25413	2.62E-48	0.64
27529	25665	26111	5.74E-25	0.79
27533	56716	57474	2.13E-27	0.94
27533	57736	57971	4.79E-31	0.92
27537	2423	3229	3.04E-24	0.62
27537	14631	15977	6.14E-34	0.7
27538	25566	25957	1.05E-20	0.85
27538	90972	92224	8.23E-85	0.76
27538	102158	102973	4.40E-15	0.8
27538	103900	104509	4.57E-11	0.63
27538	110126	110873	7.32E-43	0.77
27538	119039	120035	1.08E-41	0.79
27538	120564	120816	1.95E-40	0.96
27538	141336	143160	3.39E-71	0.72
27538	154208	155310	1.94E-57	0.73
27538	156122	157700	2.25E-57	0.85
27538	160515	160730	1.88E-12	0.79
27538	161332	162834	4.64E-40	0.65
27538	179288	180958	1.84E-91	0.83
27538	184596	185023	5.86E-42	0.75
27543	35469	35860	3.15E-07	0.97
27543	41500	41788	7.93E-16	0.87
27543	68761	69212	4.95E-20	0.77
27543	78266	78755	3.04E-20	0.75
27543	101936	102682	7.91E-59	0.89
27543	102964	103178	1.06E-15	0.88
27543	103454	105017	1.52E-84	0.88
27543	106032	106518	2.93E-26	0.94

27543	113571	113805	1.93E-12	0.87
27543	148536	149131	1.12E-13	0.81
27543	152231	152667	6.13E-14	0.83
27549	4232	4442	1.10E-06	0.75
27553	9938	10629	5.97E-40	0.72
27553	10848	11441	8.90E-31	0.78
27553	25098	25867	3.26E-22	0.82
27553	33417	34207	1.30E-13	0.67
27553	35121	35831	9.26E-25	0.75
27553	36466	36803	1.28E-20	0.82
27553	50759	50967	7.91E-10	0.82
27553	52539	53453	4.30E-30	0.9
27553	53672	55183	1.76E-97	0.88
27553	57582	58123	3.14E-40	0.84
27553	59926	60479	2.85E-44	0.96
27553	61220	61568	1.40E-30	0.92
27553	66162	66895	4.48E-51	0.88
27553	71295	71742	2.69E-55	0.95
27553	73450	73981	8.39E-19	0.65
27553	78766	80145	2.64E-162	0.88
27553	91603	91979	9.73E-19	0.86
27553	92213	92528	3.64E-47	0.91
27553	94249	94801	3.78E-21	0.89
27553	96682	96894	9.15E-30	0.95
27553	125206	125611	3.08E-28	0.83
27553	136214	136621	1.14E-22	0.81
27553	137294	137516	2.31E-10	0.8
27555	996	1491	2.05E-46	0.92
27561	6599	7215	6.93E-20	0.8
27561	16042	16318	9.60E-23	0.82
27561	49561	49932	2.83E-19	0.81
27561	67880	68583	6.96E-33	0.69
27561	68807	69365	2.02E-20	0.72
27561	73872	74346	2.64E-43	0.95
27561	76988	77273	6.44E-29	0.87
27565	4556	5066	8.13E-05	0.89
27568	10834	11081	1.13E-16	0.81
27568	20301	22062	3.91E-138	0.83
27568	34257	36749	1.85E-115	0.87
27568	50386	50705	6.31E-09	0.75
27568	58819	59106	4.53E-10	0.75
27568	68112	68616	3.94E-07	0.97
27568	76956	77633	3.08E-48	0.95
27568	101216	101526	2.50E-41	0.94
27569	79496	79761	1.36E-03	0.78
27569	86695	87051	1.67E-05	0.89
27574	93	926	3.24E-31	0.6
27574	9670	10869	1.96E-48	0.75
27574	12840	13858	6.64E-58	0.87
27574	21653	22128	9.01E-83	0.89
27574	33895	34185	3.49E-29	0.93
27574	52529	53059	2.53E-16	0.79
27574	76580	76995	1.22E-14	0.64

27574	88611	89612	6.97E-55	0.83
27574	90814	93083	3.12E-48	0.77
27574	93380	93929	6.05E-18	0.8
27574	97704	98086	2.85E-26	0.88
27574	99460	100089	8.15E-35	0.87
27574	101414	101792	7.24E-18	0.85
27574	107902	108294	2.27E-16	0.82
27574	131125	132198	7.96E-44	0.78
27574	152114	152593	1.04E-10	0.74
27578	12388	12941	3.34E-13	0.82
27578	16160	16396	9.14E-04	0.76
27578	43781	45276	5.10E-44	0.82
27578	45482	47916	5.53E-55	0.71
27578	52163	52724	3.51E-13	0.94
27578	57606	58141	6.13E-05	1
27578	61713	62296	9.60E-09	0.91
27585	9364	9917	1.51E-19	0.67
27585	29378	29766	2.21E-10	0.81
27585	43422	44223	8.47E-31	0.82
27585	60825	61390	5.90E-41	0.9
27585	67084	67582	8.79E-23	0.69
27587	505	757	2.15E-05	1
27597	22504	22892	4.02E-10	0.8
27597	30429	31038	1.52E-07	0.9
27597	38593	39293	3.25E-07	0.82
27598	3046	3871	2.11E-69	0.86
27613	17000	18877	2.95E-52	0.83
27613	38936	40147	6.09E-31	0.79
27613	40348	41253	1.68E-43	0.9
27613	42395	43978	1.61E-94	0.91
27613	44210	45337	2.65E-52	0.88
27613	46488	47060	1.16E-10	0.76
27613	48492	48826	6.42E-21	0.9
27613	74475	75385	7.42E-16	0.64
27613	79471	79951	2.39E-26	0.73
27613	80783	81213	6.72E-30	0.89
27613	81520	81806	2.55E-24	0.89
27613	85799	86093	3.94E-07	0.67
27613	100137	100352	1.69E-29	0.87
27613	107230	107508	4.73E-24	0.97
27613	113977	114640	7.22E-50	0.71
27613	120044	120321	1.82E-16	0.8
27613	136872	137260	3.76E-61	0.91
27613	137584	137806	1.30E-17	0.71
27613	152913	153437	7.41E-39	0.9
27613	161617	162072	8.58E-45	0.8
27613	169528	169962	8.34E-19	0.91
27613	170778	171756	2.70E-76	0.81
27613	190552	191033	8.49E-14	0.78
27613	211935	212193	3.79E-11	0.82
27613	222479	222801	6.80E-13	0.89
27613	241017	242092	1.09E-69	0.77
27614	126537	126996	4.77E-05	0.86

27614	154589	155070	5.70E-05	0.95
27622	4259	4717	7.89E-51	0.95
27622	7407	7855	4.75E-19	0.83
27622	25021	25382	5.38E-20	0.84
27622	26265	26644	1.90E-20	0.9
27622	38648	39050	2.15E-16	0.83
27622	40206	41031	8.65E-64	0.91
27622	65890	66285	1.21E-75	0.9
27622	66960	67178	5.79E-07	0.67
27623	21807	22263	1.44E-29	0.9
27623	22464	22686	4.29E-39	0.9
27623	27768	28776	2.32E-24	0.81
27623	29164	30562	1.68E-30	0.8
27623	30648	31502	2.13E-27	0.82
27623	37175	37642	5.06E-08	0.79
27623	39937	40220	7.51E-42	0.88
27623	56873	57554	1.62E-44	0.94
27623	59530	61293	9.57E-56	0.68
27623	61935	62452	5.84E-41	0.93
27623	63196	63648	9.11E-15	0.88
27632	35214	35596	1.90E-20	0.75
27632	38797	39083	2.31E-21	0.86
27632	42349	42940	2.40E-57	0.9
27632	43221	44960	1.94E-129	0.91
27632	52721	53276	1.01E-71	0.85
27632	53697	54067	6.12E-47	0.9
27632	54689	55146	4.40E-40	0.89
27632	65078	65316	6.94E-08	0.79
27632	76192	76775	1.26E-25	0.78
27632	78582	79254	1.76E-29	0.74
27637	34543	34936	2.89E-12	0.62
27637	40401	41868	4.82E-81	0.63
27637	50761	50996	4.29E-08	0.86
27646	1980	2211	2.68E-14	0.93
27647	25301	26096	1.56E-26	0.83
27647	26905	27713	1.19E-23	0.77
27647	47328	47898	4.38E-23	0.81
27647	49126	49809	1.43E-15	0.78
27647	50127	50996	1.48E-27	0.63
27647	67744	68305	8.99E-34	0.86
27647	68906	69324	4.45E-24	0.84
27651	9769	10286	4.79E-28	0.73
27651	24437	24677	4.06E-27	0.9
27651	24881	25637	7.98E-93	0.85
27651	32027	32532	1.64E-08	0.79
27651	32191	32541	1.47E-09	0.74
27651	38821	39070	2.88E-37	0.97
27651	48240	48845	2.41E-25	0.86
27651	49182	50188	2.13E-59	0.84
27651	64279	64509	9.44E-16	0.9
27651	68681	69056	2.16E-35	0.81
27651	75631	75848	1.12E-19	0.79
27660	29975	30564	1.01E-12	0.72

27660	38730	39377	1.72E-54	0.93
27660	40032	40648	4.89E-17	0.71
27660	46067	46423	5.34E-08	0.63
27679	1853	2092	5.24E-08	0.89
27687	13688	13969	1.39E-12	0.94
27695	18168	18375	8.23E-06	0.98
27699	906	1388	2.23E-19	0.82
27699	8743	9400	3.27E-08	0.72
27699	43299	43718	7.59E-15	0.79
27699	70733	71106	1.66E-19	0.71
27699	84492	84804	7.85E-16	0.84
27699	87305	87854	1.10E-50	0.99
27699	89956	90264	1.41E-16	0.95
27699	122571	122778	7.79E-07	0.79
27699	142753	143011	1.24E-32	0.94
27699	143221	143835	1.59E-44	0.94
27700	13480	13873	6.53E-09	1
27704	3672	4174	5.19E-11	0.77
27704	8053	8924	1.13E-14	0.75
27704	26951	27589	5.68E-57	0.93
27704	31220	31785	1.33E-23	0.87
27704	32032	33095	9.56E-48	0.84
27704	35309	36604	4.46E-35	0.67
27704	36881	37177	1.38E-33	0.92
27704	50384	50739	2.17E-34	0.78
27704	53117	53821	5.16E-29	0.9
27704	58371	58658	2.57E-27	0.84
27704	68796	70121	4.20E-52	0.86
27714	42952	43153	1.61E-11	0.8
27714	65752	66042	5.83E-10	0.93
27715	15179	15772	5.74E-18	0.73
27715	24121	24889	6.77E-16	0.69
27715	28063	29000	3.78E-58	0.94
27715	71604	72007	5.78E-25	0.87
27715	83159	83534	1.50E-11	0.89
27715	101918	102542	2.91E-29	0.66
27715	135237	135578	8.52E-06	0.86
27715	148907	149373	2.86E-19	0.72
27715	153046	153508	1.59E-13	0.83
27716	9061	9579	2.71E-21	0.85
27716	12562	13649	1.15E-49	0.82
27717	20062	21613	6.14E-52	0.74
27717	41581	43222	1.23E-91	0.89
27717	45012	45927	1.55E-52	0.87
27718	5463	5668	5.97E-25	0.94
27718	73482	73693	3.50E-10	0.94
27718	76157	76642	3.28E-05	0.88
27721	14848	15384	3.42E-42	0.93
27721	15594	16118	6.80E-20	0.77
27731	37959	38174	6.34E-08	0.86
27732	31615	31944	8.73E-12	0.81
27732	36072	37124	1.94E-69	0.91
27732	37404	37902	2.28E-67	0.91

27732	48398	49382	1.31E-33	0.78
27732	53748	53977	1.83E-15	0.81
27732	55730	56163	1.81E-52	0.88
27732	57189	57880	3.03E-96	0.92
27732	58835	59267	4.17E-57	0.81
27732	120575	120801	1.88E-58	0.83
27732	133044	134075	4.09E-127	0.94
27741	10219	10585	2.35E-03	0.93
27741	16254	16720	3.75E-14	0.81
27742	21248	21550	5.29E-10	0.7
27742	23429	24248	1.39E-19	0.84
27742	36170	36584	2.04E-15	0.8
27742	92247	92857	1.02E-71	0.94
27742	108265	108762	2.60E-10	0.67
27742	118648	119045	1.13E-11	0.76
27742	137766	138469	7.70E-24	0.84
27742	168980	169277	7.01E-43	0.95
27743	7015	7286	2.30E-04	0.96
27743	12267	12485	8.92E-07	0.87
27743	16288	16534	4.94E-29	0.86
27743	19201	19545	2.08E-04	0.97
27743	22962	23202	1.53E-06	0.84
27744	6483	7397	2.07E-64	0.78
27744	21489	21992	1.66E-15	0.79
27744	29282	30499	1.26E-72	0.89
27744	34994	35646	6.24E-33	0.74
27744	35850	36093	4.10E-22	0.88
27744	37091	37762	4.63E-44	0.93
27744	38143	38869	5.44E-92	0.91
27744	39548	39892	5.13E-38	0.88
27744	48238	48809	1.86E-65	0.93
27744	80756	81058	8.29E-18	0.78
27744	83733	84318	2.52E-25	0.82
27744	86499	86946	2.09E-17	0.84
27744	91739	92150	3.34E-23	0.65
27747	30736	31145	1.16E-19	0.93
27747	32522	32915	2.67E-29	0.95
27747	41184	41675	7.88E-48	0.73
27747	61769	62415	2.79E-175	0.96
27747	62736	63561	2.67E-85	0.93
27747	66671	67319	4.89E-87	0.97
27747	68095	68484	1.68E-73	0.92
27747	68713	69426	2.04E-31	0.9
27747	74963	75207	4.58E-25	0.93
27747	76105	76320	6.36E-19	0.91
27749	1666	2977	3.14E-44	0.83
27749	9381	9805	1.95E-31	0.95
27749	11801	12859	1.49E-49	0.89
27749	14299	15488	6.72E-50	0.88
27749	25192	26041	7.82E-45	0.81
27749	32667	33229	2.36E-28	0.83
27749	33661	34081	1.82E-13	0.75
27749	61727	62165	2.36E-16	0.87

27749	85881	86366	5.59E-23	0.91
27749	131779	132693	1.88E-24	0.62
27749	134631	134901	3.66E-08	0.81
27749	135409	135677	5.11E-43	0.86
27749	136759	137236	4.80E-56	0.9
27749	137737	137969	7.59E-33	0.91
27749	138287	138766	4.37E-31	0.82
27749	141756	142262	1.10E-33	0.93
27749	144289	145393	2.10E-79	0.71
27749	162498	162872	2.98E-19	0.61
27751	104225	104830	1.25E-18	0.78
27751	114922	115704	2.69E-28	0.69
27751	118441	118724	8.05E-10	0.67
27751	121179	121551	3.64E-09	0.75
27751	121845	122496	9.56E-23	0.88
27751	123161	124087	9.59E-46	0.94
27751	134208	134495	6.89E-15	0.65
27751	134792	136839	6.03E-61	0.83
27751	137133	137428	1.57E-18	0.83
27752	8	229	4.16E-31	0.93
27752	6921	7698	4.19E-13	0.83
27752	12980	13431	1.37E-14	0.8
27753	6234	6616	2.78E-06	0.79
27754	1802	2179	5.56E-16	0.85
27755	7756	7973	1.87E-19	0.84
27755	19095	19864	1.08E-33	0.8
27755	47854	48293	3.69E-77	0.93
27755	57729	58476	1.34E-63	0.83
27755	68368	69292	7.12E-40	0.7
27758	4236	5099	4.35E-74	0.96
27758	19893	20329	2.06E-15	0.73
27758	45387	46285	2.38E-26	0.81
27758	47796	48095	1.61E-12	0.8
27758	51734	52153	6.06E-39	0.94
27758	63176	63506	8.91E-13	0.79
27758	70391	70818	1.03E-13	0.77
27758	71133	72623	7.52E-133	0.85
27758	80531	81755	9.78E-63	0.78
27758	98775	99370	5.67E-35	0.95
27758	101521	103841	1.19E-113	0.91
27758	105228	105529	1.20E-20	0.85
27758	105738	106295	2.97E-23	0.9
27758	117363	119368	1.93E-40	0.77
27758	128933	129426	1.13E-55	0.92
27758	130763	130989	3.36E-05	0.79
27758	133363	133823	6.85E-20	0.72
27758	143524	144202	2.95E-52	0.88
27758	166800	167820	1.05E-56	0.8
27758	168871	169355	3.52E-15	0.76
27758	170272	170703	6.44E-17	0.83
27758	171075	171323	1.77E-28	0.95
27758	173864	174282	2.68E-26	0.86
27763	36396	36816	1.63E-64	0.95

27763	43979	44260	5.30E-12	0.8
27766	510	1054	3.78E-63	0.86
27766	22429	22658	4.77E-17	0.97
27766	27547	28070	6.26E-20	0.73
27766	31875	32397	2.11E-15	0.8
27766	40004	40334	2.83E-15	0.85
27766	42749	43542	3.24E-63	0.96
27766	47892	48645	1.99E-29	0.81
27766	50534	50869	2.71E-33	0.94
27766	73873	75134	4.23E-103	0.89
27766	76659	77119	6.03E-19	0.91
27766	80609	80904	2.64E-12	0.72
27766	82083	82921	3.95E-39	0.84
27766	84121	84616	2.75E-28	0.85
27766	85774	86175	6.72E-31	0.87
27766	103776	104809	1.39E-76	0.95
27766	108938	109164	6.99E-45	0.88
27769	16195	16617	3.93E-10	0.86
27769	21193	21688	1.76E-39	0.84
27770	579	1186	7.74E-18	0.86
27770	13553	14074	3.18E-15	0.71
27771	32410	32651	1.59E-21	0.78
27773	900	1503	6.81E-11	0.84
27777	6816	7378	3.34E-71	0.85
27777	7610	9846	9.35E-189	0.76
27777	25902	26186	5.79E-20	0.9
27777	26834	27208	6.20E-40	0.91
27777	32378	33065	5.77E-33	0.65
27777	33388	33985	9.22E-42	0.8
27777	48358	48831	2.96E-71	0.83
27777	49153	49765	8.01E-22	0.78
27777	57560	58395	6.08E-34	0.88
27777	58665	58985	1.25E-24	0.87
27777	59446	60244	8.08E-36	0.79
27777	64324	64719	4.89E-29	0.89
27777	66409	67183	3.56E-28	0.77
27777	71518	72281	4.32E-35	0.8
27777	78066	78520	2.22E-13	0.8
27777	84506	84876	2.27E-16	0.9
27777	98182	98445	4.21E-31	0.74
27783	785	1403	6.15E-42	0.82
27784	1972	2839	6.00E-15	0.94
27787	7533	8024	1.37E-81	0.89
27791	2184	2689	9.12E-16	0.68
27791	8086	8367	1.58E-22	0.85
27791	13155	13954	6.79E-31	0.85
27791	14223	14506	4.84E-23	0.91
27791	26678	26952	1.05E-12	0.95
27791	32177	32804	7.88E-51	0.96
27791	34188	34689	2.82E-26	0.91
27791	36132	37154	1.67E-40	0.63
27791	38086	38470	4.85E-17	0.76
27791	38879	39163	3.14E-28	0.88

27791	39384	40590	1.35E-140	0.87
27791	40910	41908	2.05E-52	0.88
27791	44103	44458	9.19E-23	0.86
27791	55708	55938	4.51E-10	0.72
27792	10317	10809	2.74E-07	0.98
27795	2242	2547	2.74E-05	0.85
27795	20675	20916	7.18E-09	0.86
27795	27757	27970	3.03E-05	0.92
27795	31711	32249	7.15E-10	0.77
27797	6988	8452	4.67E-95	0.89
27798	17454	17871	3.27E-27	0.9
27798	18539	18864	9.09E-47	0.96
27798	19911	20372	1.50E-09	0.73
27798	23654	24079	8.92E-38	0.83
27798	25900	26285	4.17E-10	0.63
27798	27650	29028	3.36E-52	0.82
27798	31200	31820	4.73E-42	0.73
27798	32022	32470	1.64E-26	0.92
27798	33749	34074	8.19E-23	0.89
27798	57669	58306	4.67E-51	0.92
27798	58726	59543	6.64E-36	0.86
27798	59898	60481	6.66E-53	0.96
27798	72966	73900	1.49E-77	0.84
27798	74126	75235	5.10E-124	0.91
27798	81342	83058	1.37E-110	0.88
27798	83280	83713	8.20E-19	0.93
27798	109178	109435	5.61E-24	0.94
27798	110690	111330	2.74E-45	0.86
27798	162366	162928	2.35E-23	0.89
27798	165904	166317	1.25E-52	0.9
27798	167433	168057	4.03E-31	0.75
27798	268017	268508	2.48E-15	0.84
27802	51139	51383	1.22E-07	0.9
27807	3260	3530	3.18E-10	0.83
27807	7186	7619	1.26E-33	0.85
27807	12709	14121	2.91E-65	0.74
27810	5312	5837	2.74E-20	0.74
27810	8228	8639	1.48E-16	0.63
27810	28717	31368	4.00E-180	0.83
27810	54129	54671	1.07E-11	0.81
27810	57660	60024	3.65E-218	0.85
27810	64839	65666	2.69E-23	0.79
27810	85606	85863	6.03E-45	0.96
27810	87116	87609	2.23E-33	0.91
27810	89701	90589	1.13E-31	0.83
27810	112533	112964	3.67E-33	0.85
27810	113782	114032	2.72E-22	0.84
27810	115339	115651	4.51E-21	0.94
27810	116166	117154	4.02E-59	0.88
27810	117419	118415	5.32E-29	0.83
27810	142952	143617	2.83E-51	0.88
27810	148211	148584	2.33E-32	0.74
27810	149803	150151	1.62E-20	0.85

27810	151258	152458	1.07E-95	0.92
27810	153368	153937	6.65E-46	0.82
27810	154511	155071	8.47E-45	0.82
27810	165512	166829	2.65E-46	0.87
27810	184985	185244	7.75E-18	0.9
27810	201479	201869	5.73E-16	0.81
27810	208144	209259	3.19E-78	0.87
27810	237234	237474	3.25E-13	0.89
27810	276326	277346	6.96E-55	0.71
27810	279286	280016	1.09E-36	0.66
27810	285190	285486	1.67E-12	0.82
27810	306157	306671	2.31E-18	0.68
27810	306928	307866	3.18E-66	0.66
27810	310353	311093	5.93E-36	0.64
27810	321741	322684	2.08E-31	0.85
27810	329644	330130	7.45E-36	0.82
27810	341606	342004	1.05E-13	0.65
27811	7710	8458	1.42E-75	0.89
27811	8768	9078	4.26E-25	0.81
27811	13025	14467	2.82E-43	0.86
27811	18820	20240	2.90E-63	0.79
27811	32770	33427	7.08E-62	0.93
27816	1984	2286	4.33E-05	0.93
27822	6858	7168	1.98E-11	0.88
27822	15261	15604	1.49E-07	0.85
27825	4496	4731	1.06E-05	0.97
27827	10374	11449	5.43E-108	0.96
27827	11994	12555	1.73E-51	0.96
27827	13435	13990	3.89E-24	0.9
27827	18226	18504	5.32E-19	0.82
27827	23246	23592	7.60E-07	0.87
27828	41156	41382	4.72E-12	0.69
27828	44946	45936	9.88E-49	0.72
27828	47333	47595	3.15E-34	0.84
27828	67088	67429	8.07E-10	0.6
27828	68142	68495	1.50E-19	0.89
27831	29785	30600	1.34E-15	0.7
27837	3107	3392	9.53E-09	0.62
27837	14637	15982	1.34E-196	0.88
27837	16231	16726	3.56E-201	0.95
27837	16959	17311	3.50E-283	0.93
27837	17989	18746	4.87E-259	0.86
27837	19613	19849	1.63E-127	0.92
27837	24716	25708	1.69E-34	0.85
27837	68221	68521	1.03E-22	0.76
27837	79875	80373	2.32E-16	0.83
27837	85574	86633	1.42E-43	0.78
27837	86836	87300	4.40E-12	0.8
27837	89325	89879	7.81E-13	0.82
27837	90183	90481	1.65E-12	0.82
27837	94026	94642	1.27E-13	0.78
27843	21713	22298	9.09E-42	0.82
27843	22684	22984	4.03E-15	0.84

27843	37904	38622	1.24E-18	0.8
27843	39810	40204	1.57E-40	0.96
27843	41015	41436	8.31E-12	0.88
27843	45002	45555	1.36E-32	0.83
27847	12765	13045	7.86E-09	0.71
27847	20965	22265	3.66E-32	0.79
27847	22497	22867	4.68E-49	0.83
27847	27880	28498	1.22E-46	0.61
27856	9000	9781	6.69E-34	0.66
27858	26608	27017	2.16E-17	0.83
27860	12077	12463	8.21E-55	0.93
27860	19212	19651	5.54E-24	0.83
27866	5722	6046	2.35E-13	0.86
27866	72362	73368	3.15E-72	0.87
27866	104071	105477	7.26E-40	0.88
27866	105716	106368	6.63E-35	0.81
27872	1030	1280	4.48E-05	0.88
27887	3928	4484	3.26E-14	0.82
27887	7739	8495	3.10E-34	0.79
27887	16018	16469	2.70E-44	0.97
27889	38982	39605	9.41E-23	0.97
27889	48189	48597	8.98E-07	0.82
27889	60499	61726	1.48E-73	0.79
27889	83619	84268	3.34E-17	0.76
27890	13893	14586	3.00E-10	0.92
27893	61693	61970	1.68E-06	0.71
27893	77812	78255	1.22E-38	0.94
27893	105674	105896	1.11E-16	0.87
27894	29868	30584	3.36E-13	0.76
27894	31666	32004	2.13E-31	0.94
27894	42847	43603	6.05E-27	0.83
27894	47297	47811	3.83E-21	0.72
27894	49200	49649	1.47E-16	0.79
27894	106237	106517	2.58E-21	0.75
27894	108309	108678	6.73E-21	0.69
27894	163555	164165	2.67E-40	0.92
27894	165369	165666	1.91E-09	0.64
27894	166664	167909	7.85E-80	0.8
27894	168766	169558	1.23E-32	0.63
27894	173468	174570	1.17E-37	0.9
27894	176149	176452	4.93E-08	0.98
27894	211173	211824	2.79E-12	0.67
27894	212049	212476	1.36E-15	0.76
27894	217747	218529	6.95E-59	0.93
27894	230199	230426	9.87E-09	0.86
27894	232249	233141	1.23E-70	0.63
27894	234414	234838	3.12E-16	0.88
27894	237365	237601	1.08E-26	0.95
27894	239105	239707	1.47E-22	0.85
27894	240228	240685	3.92E-38	0.97
27894	241950	242557	4.08E-23	0.83
27894	242890	243321	3.81E-23	0.88
27894	263865	264678	6.85E-30	0.88

27894	264902	265561	2.30E-21	0.82
27894	275717	276113	9.97E-52	0.91
27894	284862	285404	3.89E-15	0.63
27894	288652	289152	1.01E-12	0.93
27894	290124	290808	1.68E-43	0.75
27894	291057	291508	5.53E-09	0.65
27894	301503	303481	1.32E-117	0.91
27894	303807	304178	1.96E-47	0.97
27894	304391	305114	2.35E-98	0.91
27894	365054	365512	2.31E-62	0.86
27894	367766	368014	9.86E-20	0.86
27894	370682	370935	1.31E-19	0.68
27894	371349	371991	2.43E-21	0.8
27894	375396	375758	4.79E-54	0.91
27894	376812	377242	1.54E-21	0.86
27894	377898	378260	6.53E-23	0.86
27894	387048	387521	9.14E-16	0.84
27894	418376	419920	1.78E-58	0.76
27894	452922	453221	2.42E-07	0.71
27894	462439	462825	8.79E-16	0.79
27894	464542	465429	1.19E-42	0.86
27894	465744	466755	2.08E-51	0.84
27894	468443	468666	1.99E-19	0.82
27894	469316	469679	3.95E-37	0.91
27894	489876	491219	5.63E-124	0.9
27895	12055	12511	8.28E-13	0.79
27895	16377	17512	1.56E-37	0.92
27895	27582	28443	8.56E-60	0.85
27901	1558	1811	1.26E-08	0.97
27902	61439	61918	3.41E-04	0.88
27904	14585	14962	8.22E-47	0.79
27904	17764	18243	2.66E-21	0.83
27904	25628	26615	1.23E-37	0.93
27904	28181	29723	3.02E-46	0.67
27904	30320	31669	5.94E-118	0.92
27904	57295	57583	1.62E-22	0.8
27904	63658	64031	1.25E-28	0.88
27904	89452	90283	2.27E-47	0.82
27904	90545	90866	2.54E-15	0.79
27904	91182	91603	4.07E-15	0.66
27904	92245	92698	4.89E-21	0.83
27904	93006	93505	2.01E-39	0.86
27904	98820	99120	1.96E-12	0.73
27905	10150	10938	1.39E-45	0.93
27905	11627	12297	2.78E-102	0.93
27905	26178	26712	4.17E-24	0.9
27905	35629	35937	5.34E-36	0.83
27905	36150	37024	1.25E-54	0.88
27909	1388	1939	1.73E-06	0.89
27913	3983	4857	2.15E-16	0.8
27913	19714	20290	3.26E-12	0.8
27914	1562	2019	5.33E-18	0.62
27914	22290	22884	5.11E-47	0.94

27914	24431	24723	6.62E-54	0.97
27914	28952	29284	1.30E-55	0.9
27914	51708	52184	4.54E-35	0.88
27914	95536	96269	7.34E-36	0.67
27914	98187	98418	5.97E-15	0.74
27914	100917	102080	5.28E-55	0.89
27914	105764	106524	1.87E-21	0.84
27914	128440	128849	2.47E-34	0.82
27914	139076	139362	1.42E-38	0.97
27914	139612	139975	6.94E-23	0.93
27914	140591	140982	1.79E-12	0.81
27914	178198	178484	1.54E-27	0.96
27914	178717	179767	3.06E-108	0.95
27914	212145	213123	1.99E-47	0.95
27914	213363	213609	6.41E-11	0.79
27914	228610	229953	6.43E-56	0.62
27914	230192	230560	1.68E-80	0.93
27914	253084	253669	9.67E-34	0.89
27914	258212	258470	6.28E-11	0.7
27914	262326	262797	8.06E-14	0.83
27916	10264	10869	9.33E-35	0.82
27916	11701	12163	1.74E-32	0.91
27916	13071	13558	5.22E-23	0.69
27916	18128	18383	1.10E-22	0.91
27916	18415	18725	7.38E-12	0.82
27916	19357	19942	5.55E-40	0.9
27916	22521	22847	2.50E-23	0.93
27916	32050	32657	5.85E-33	0.82
27916	32982	33447	8.30E-26	0.86
27916	33872	34286	1.14E-28	0.91
27916	37176	37825	2.14E-09	0.8
27916	41578	42777	1.32E-46	0.8
27916	45810	46798	1.11E-36	0.9
27916	57889	58427	7.00E-18	0.75
27916	69119	69693	4.36E-103	0.9
27916	93766	94299	2.40E-46	0.67
27917	26554	27157	8.45E-63	0.71
27917	27393	27832	2.02E-48	0.88
27917	28342	28737	4.28E-39	0.96
27918	24278	24631	5.16E-32	0.88
27921	8464	9300	2.85E-04	1
27921	54147	54411	1.63E-04	0.89
27934	15159	15983	5.09E-23	0.73
27934	50416	50929	2.21E-29	0.95
27934	59297	60156	1.59E-112	0.95
27934	61007	62454	9.18E-79	0.86
27934	77912	78649	5.97E-33	0.92
27934	85981	86536	2.95E-71	0.93
27934	93392	94334	3.33E-38	0.91
27934	98283	98670	1.10E-34	0.96
27934	106000	106662	1.67E-41	0.88
27934	107367	107901	4.15E-71	0.89
27934	112867	113102	2.73E-09	0.61

27934	120670	120914	1.49E-08	0.81
27934	125029	125335	6.61E-12	0.76
27934	126290	126911	5.82E-23	0.81
27934	129705	130129	6.33E-74	0.93
27934	131188	131406	2.16E-28	0.85
27934	132009	132217	5.21E-18	0.86
27934	138191	139231	2.30E-47	0.87
27934	148509	149040	1.79E-06	0.84
27934	151009	151256	5.13E-05	0.95
27934	154764	155188	1.05E-12	0.92
27934	156801	157044	1.23E-21	0.86
27940	58851	59932	2.09E-26	0.69
27940	61557	62106	1.26E-18	0.8
27940	72196	72682	9.96E-23	0.84
27940	72659	73733	1.10E-36	0.82
27940	77210	78396	9.67E-34	0.73
27940	78605	79393	2.89E-18	0.76
27940	79706	80369	3.06E-32	0.87
27940	94362	94884	2.50E-26	0.79
27940	97684	98831	4.35E-41	0.75
27940	122203	122641	2.64E-42	0.88
27940	142515	142964	3.63E-20	0.65
27940	146009	146591	2.00E-19	0.7
27940	147197	147870	5.32E-77	0.88
27940	148099	148320	1.04E-29	0.94
27940	148693	149662	8.08E-130	0.9
27940	150539	152116	2.63E-125	0.9
27940	156038	156652	1.24E-32	0.72
27942	2989	3376	3.89E-25	0.77
27942	4092	4631	8.54E-26	0.91
27942	16422	16670	3.82E-15	0.65
27942	17403	17995	4.39E-25	0.61
27942	57745	58215	1.76E-48	0.88
27942	58583	60432	9.37E-95	0.82
27942	91772	92638	1.34E-42	0.88
27942	93749	93994	1.95E-14	0.76
27945	8108	9645	1.11E-86	0.87
27949	1520	2104	2.98E-14	0.91
27949	47557	47861	4.42E-08	0.93
27949	62866	63077	1.76E-12	0.84
27949	82121	82563	3.39E-05	1
27950	15753	16085	2.82E-09	0.88
27950	29009	29353	2.98E-27	0.9
27950	43416	43908	9.91E-06	0.97
27950	79477	79911	2.97E-11	0.8
27953	3237	3582	2.23E-15	0.8
27953	16374	16947	5.01E-10	0.75
27955	13602	14556	4.46E-106	0.84
27955	15722	16189	2.25E-41	0.88
27955	28493	28947	1.03E-22	0.82
27955	31544	31855	4.20E-26	0.85
27955	32471	33179	8.12E-54	0.61
27955	38237	38849	1.60E-27	0.79

27955	59633	60120	4.82E-20	0.88
27955	65537	66116	1.12E-39	0.84
27955	72094	72683	1.48E-19	0.79
27955	112843	113137	4.21E-42	0.63
27956	19440	20980	3.37E-64	0.83
27956	77606	77865	5.09E-07	0.97
27956	122458	122724	5.96E-30	0.77
27956	145247	145741	2.67E-22	0.83
27956	146288	146884	5.57E-48	0.83
27956	147336	148518	8.76E-34	0.89
27956	159914	160735	2.31E-23	0.68
27956	161806	162435	6.53E-11	0.91
27956	183557	183807	1.98E-07	0.76
27958	7716	8043	5.18E-13	0.86
27958	14460	15335	9.28E-27	0.75
27961	16106	16416	4.79E-17	0.92
27961	22266	23604	2.38E-33	0.69
27961	23833	24188	1.18E-47	0.9
27961	34179	34381	1.29E-11	0.65
27961	89099	89728	3.28E-36	0.88
27961	94358	94872	1.54E-82	0.81
27963	1390	1884	1.62E-05	0.84
27964	16589	17359	4.93E-26	0.83
27964	47181	47534	2.32E-46	0.84
27964	47737	49065	1.50E-105	0.91
27964	49278	50058	3.28E-42	0.92
27964	50306	50678	4.06E-26	0.87
27964	50882	52138	1.43E-148	0.86
27964	75064	75387	2.27E-19	0.74
27964	97408	97621	1.11E-12	0.6
27964	97740	98077	2.87E-10	0.78
27964	122989	123474	1.29E-52	0.88
27964	123687	124358	1.09E-40	0.85
27964	166446	167117	1.19E-22	0.92
27964	186765	187011	1.11E-15	0.78
27965	7699	8449	6.08E-41	0.89
27965	9591	10022	1.66E-25	0.95
27965	15819	16792	2.06E-34	0.85
27965	22462	22696	5.30E-22	0.85
27965	22882	23529	1.80E-28	0.92
27965	52992	53326	2.02E-44	0.7
27965	54365	55050	1.57E-31	0.77
27966	3560	3869	4.50E-32	0.9
27966	8223	8518	2.42E-16	0.88
27966	14101	14413	6.59E-12	0.74
27966	20432	20722	3.21E-11	0.81
27967	25613	25869	1.35E-07	1
27967	26887	27239	5.12E-06	0.9
27968	6883	7101	2.54E-04	0.86
27968	45398	45754	6.93E-17	0.88
27968	92890	93272	5.31E-26	0.9
27968	93617	94026	1.07E-11	0.95
27968	98609	99941	2.21E-61	0.91

27968	100503	101179	4.18E-50	0.87
27970	5710	6423	3.59E-31	0.88
27970	7097	7721	9.81E-31	0.9
27970	20440	20974	5.64E-19	0.77
27970	22109	23240	2.49E-50	0.85
27970	23487	23968	1.35E-35	0.92
27970	24935	25172	9.09E-18	0.81
27970	27975	28648	5.15E-40	0.9
27972	17089	17328	9.64E-11	0.77
27973	271	1408	3.70E-42	0.77
27973	2236	2642	1.56E-09	0.75
27973	32000	32870	8.53E-38	0.64
27973	40118	40640	3.15E-32	0.94
27973	42284	42829	5.63E-59	0.88
27973	43880	44443	2.91E-29	0.9
27973	46595	47298	5.34E-30	0.73
27973	50044	50424	1.18E-15	0.85
27973	59960	60612	5.06E-38	0.93
27973	60911	61323	3.88E-57	0.94
27973	63900	64187	4.76E-29	0.82
27981	8707	9005	1.00E-25	0.66
27981	9217	9643	2.21E-20	0.73
27981	10081	10423	2.21E-48	0.93
27981	15386	15624	9.60E-53	0.96
27981	16693	16923	3.61E-18	0.9
27981	32658	33039	1.80E-06	0.7
27981	44598	45035	1.29E-35	0.89
27982	32410	33399	9.03E-35	0.95
27985	134727	135165	2.15E-06	0.96
27985	213180	214134	4.37E-75	0.87
27985	234099	234336	2.11E-13	0.66
27985	234605	235155	5.89E-38	0.82
27985	241162	241797	8.29E-64	0.92
27985	332044	333290	5.97E-38	0.79
27985	343045	343382	1.47E-43	0.89
27985	343676	344063	2.70E-75	0.9
27985	344408	344639	6.54E-23	0.8
27986	4338	4575	7.80E-11	0.75
27996	13960	14314	6.79E-32	0.82
27996	19993	21050	2.14E-47	0.87
27996	22292	22723	2.62E-19	0.83
27996	35226	36800	3.43E-65	0.85
27996	40751	41310	1.63E-18	0.81
27996	42396	43186	1.44E-31	0.87
27996	51781	52153	2.81E-10	0.82
27996	56740	57521	2.70E-42	0.68
27996	57743	58314	3.57E-17	0.83
27996	58547	59921	1.34E-73	0.86
27999	10717	10928	1.79E-16	0.83
27999	15269	15733	5.44E-15	0.78
27999	27590	27893	4.63E-25	0.71
27999	29039	29319	1.39E-10	0.67
28004	2039	2497	8.91E-31	0.9

28005	13482	13763	2.76E-23	0.75
28005	14008	15327	3.62E-40	0.84
28007	31497	31980	1.84E-28	0.88
28007	39171	40607	1.07E-68	0.9
28007	41381	42314	1.63E-73	0.88
28007	49964	50421	1.93E-26	0.9
28007	51312	51894	2.03E-56	0.81
28007	62916	63375	8.85E-09	0.66
28007	67898	68266	1.54E-21	0.83
28007	76850	78986	4.27E-59	0.82
28007	79541	79872	5.05E-18	0.87
28007	80308	80702	1.93E-20	0.84
28007	81152	81617	4.32E-17	0.84
28007	94648	95473	7.56E-53	0.91
28007	95694	96545	6.60E-55	0.93
28007	97400	97865	1.16E-55	0.94
28007	98930	99338	6.26E-23	0.93
28008	14137	14566	1.36E-40	0.96
28008	15228	15550	1.81E-24	0.72
28011	8176	9171	3.44E-43	0.77
28011	24489	25364	2.29E-46	0.82
28011	27520	29259	5.85E-132	0.86
28011	30321	30649	3.25E-33	0.99
28011	31428	31629	3.30E-36	0.9
28012	9069	9295	1.11E-08	0.88
28012	16386	16623	7.43E-07	0.89
28012	26499	26795	2.21E-04	1
28014	29553	30591	2.16E-31	0.6
28016	25764	26544	1.19E-20	0.78
28021	1063	1463	4.40E-05	0.88
28024	29899	30428	1.90E-10	0.88
28024	52884	53461	1.60E-11	0.95
28024	53498	53740	5.25E-07	0.82
28024	104968	105320	1.03E-05	1
28024	120295	120869	5.61E-08	0.8
28024	161430	161806	7.38E-06	0.84
28024	173890	174188	8.70E-04	0.86
28025	4711	5098	1.70E-07	0.92
28025	9556	9888	2.72E-05	0.87
28030	1861	2670	5.55E-24	0.73
28035	6445	7100	1.97E-44	0.91
28035	23081	23332	1.11E-17	0.81
28035	27140	27882	1.71E-41	0.84
28035	28216	28743	1.11E-18	0.83
28035	30390	30643	1.22E-34	0.85
28035	30846	31815	3.41E-95	0.83
28035	34286	34929	2.29E-47	0.92
28035	36420	36749	4.69E-15	0.85
28035	38205	38543	7.01E-15	0.83
28035	38658	39628	3.33E-35	0.86
28035	39836	40180	2.68E-41	0.89
28035	43944	44451	9.08E-17	0.86
28035	44659	44973	1.83E-12	0.79

28035	46245	46535	4.03E-30	0.94
28035	46742	47066	5.89E-29	0.96
28035	51897	52563	1.84E-31	0.89
28035	65287	66215	1.72E-50	0.86
28035	80421	80622	2.96E-04	0.89
28035	121193	121569	5.43E-20	0.93
28035	124291	125732	8.31E-120	0.92
28035	127078	127848	1.71E-49	0.95
28035	128064	128948	3.18E-52	0.91
28035	130758	131794	1.57E-61	0.89
28035	134261	134693	2.66E-11	0.78
28035	135051	135386	2.84E-24	0.92
28035	147810	148219	8.95E-39	0.86
28035	153401	153779	1.59E-15	0.96
28035	155197	156227	4.55E-74	0.93
28035	156461	156745	1.04E-50	0.95
28035	158204	158576	8.56E-47	0.88
28035	159624	160545	6.88E-42	0.73
28035	197067	197425	4.66E-22	0.79
28035	245625	245936	1.17E-20	0.89
28035	265230	265544	8.34E-09	0.66
28035	275680	276035	1.40E-34	0.7
28037	4588	5600	6.84E-60	0.97
28037	14217	14710	1.22E-20	0.94
28037	15779	16245	2.57E-28	0.96
28037	25462	26031	1.54E-63	0.79
28037	26281	26642	5.84E-55	0.86
28037	47471	47926	7.43E-11	0.81
28038	5350	5805	8.43E-05	0.85
28040	38038	38467	2.80E-28	0.92
28040	39140	39508	2.68E-20	0.95
28040	40852	41122	1.19E-20	0.89
28040	41518	41903	3.26E-38	0.95
28040	42264	42993	1.00E-58	0.95
28040	44664	45269	1.82E-15	0.83
28042	7403	7674	1.96E-10	0.88
28047	2483	2877	7.14E-30	0.94
28047	9866	10122	1.30E-09	0.87
28049	37793	38176	2.37E-30	0.86
28049	70715	71663	4.41E-24	0.8
28049	72028	72538	4.64E-17	0.8
28049	77529	78877	4.62E-109	0.89
28049	79123	79539	1.04E-31	0.93
28049	85787	86582	1.23E-49	0.71
28049	89569	90442	7.83E-35	0.62
28049	97317	97588	5.36E-13	0.84
28049	98250	98692	6.63E-26	0.81
28052	37932	38164	7.66E-05	0.77
28053	15323	15707	3.11E-26	0.96
28053	15920	16259	5.27E-31	0.95
28053	16516	17672	4.02E-98	0.92
28054	14640	14943	9.33E-04	1
28059	22717	23013	1.21E-05	0.79

28059	24684	24998	9.87E-10	0.78
28060	7454	8236	5.97E-31	0.72
28060	9971	10279	2.82E-22	0.91
28060	16969	17592	4.34E-28	0.81
28060	17921	18168	9.76E-17	0.8
28063	1087	1302	9.24E-06	0.88
28067	11892	12567	7.70E-18	0.8
28067	13722	14533	2.96E-36	0.84
28067	15099	15397	2.24E-11	0.79
28067	15664	16253	5.26E-29	0.86
28067	16510	17073	2.95E-34	0.81
28067	31260	31520	2.03E-06	0.66
28067	43551	45086	1.64E-92	0.79
28067	48463	48807	7.39E-84	0.96
28067	49008	49353	4.40E-37	0.94
28067	49736	50339	1.06E-40	0.66
28070	9140	9418	7.41E-17	0.92
28074	13621	13951	2.44E-07	0.8
28074	24946	25233	6.63E-06	0.95
28076	29405	30947	4.14E-42	0.67
28076	36996	37787	6.13E-24	0.77
28076	39651	40904	7.60E-73	0.76
28076	63255	64674	3.16E-50	0.81
28076	71498	72097	1.30E-37	0.69
28076	75990	76275	6.07E-48	0.94
28076	88185	88642	1.11E-19	0.81
28076	90263	90987	7.02E-49	0.92
28076	91238	91654	1.20E-24	0.85
28076	95012	96441	2.01E-58	0.61
28076	113733	115817	7.95E-104	0.72
28076	126370	126857	4.81E-29	0.81
28076	127175	127458	2.65E-31	0.93
28076	128912	129234	2.16E-38	0.93
28076	129845	130104	1.38E-14	0.92
28076	131239	131545	4.88E-43	0.85
28076	142727	143162	1.93E-20	0.84
28076	144012	144364	6.20E-16	0.81
28076	155781	156215	2.06E-13	0.83
28077	15018	16118	1.53E-43	0.72
28077	19353	20170	7.55E-50	0.86
28077	29784	30168	1.73E-25	0.91
28077	42948	43394	9.70E-09	0.69
28092	6485	6740	4.77E-20	0.67
28092	30950	31296	5.89E-11	0.75
28092	53653	54039	1.61E-42	0.73
28093	49956	51136	1.56E-89	0.89
28093	65700	65987	3.87E-21	0.92
28093	66392	66678	4.11E-14	0.89
28093	68805	69085	5.09E-31	0.89
28094	4285	4775	1.67E-18	0.74
28094	5927	6782	5.11E-88	0.96
28094	19891	20181	1.89E-20	0.79
28094	20196	20579	9.19E-20	0.84

28094	21264	21728	1.62E-16	0.82
28094	26276	26728	9.47E-10	0.88
28094	41551	41999	3.77E-11	0.95
28094	44234	44712	1.13E-52	0.89
28094	45722	46123	3.49E-33	0.8
28094	56050	56435	1.20E-32	0.88
28094	60333	61130	3.24E-39	0.81
28094	62226	62930	7.51E-52	0.93
28094	96788	97179	8.48E-34	0.89
28095	2487	3419	6.45E-68	0.9
28097	13025	13399	3.34E-63	0.82
28097	16426	16951	3.07E-60	0.79
28097	17191	17400	2.58E-31	0.95
28097	18407	19216	2.38E-65	0.93
28097	19500	19829	2.42E-44	0.95
28097	20636	20997	1.35E-23	0.89
28097	26648	26994	2.38E-15	0.8
28097	27632	28796	1.06E-53	0.82
28097	30180	30470	4.71E-13	0.68
28097	32253	32941	1.51E-99	0.97
28097	34662	35006	1.48E-18	0.7
28097	35922	36323	3.68E-14	0.77
28098	15198	15495	2.10E-61	0.88
28098	27552	28070	2.87E-25	0.79
28098	28283	29309	5.59E-66	0.88
28098	29518	30114	9.45E-29	0.85
28098	40579	41110	2.96E-15	0.67
28098	43663	44125	4.73E-10	0.75
28098	48195	48453	3.77E-30	0.88
28098	48761	50439	1.76E-55	0.73
28100	538	2171	2.54E-108	0.87
28102	5008	5665	1.83E-48	0.68
28102	78026	78315	7.09E-21	0.65
28102	81361	81725	1.83E-52	0.93
28102	116191	116678	6.17E-21	0.64
28102	117394	117689	8.28E-24	0.98
28102	119160	119731	1.00E-51	0.96
28104	3578	3843	9.80E-42	0.78
28104	4410	4889	1.43E-37	0.75
28104	16812	17413	5.07E-42	0.7
28107	699	990	6.68E-04	0.96
28108	63348	64930	6.69E-86	0.89
28108	67796	68987	4.81E-40	0.78
28108	105644	106096	8.87E-23	0.88
28108	126337	126914	1.19E-18	0.83
28111	31025	32027	1.63E-49	0.78
28111	246349	246581	2.52E-13	0.8
28111	260639	260843	1.38E-07	0.91
28111	274683	274987	7.27E-06	0.81
28111	296323	296675	2.77E-06	0.9
28111	327522	327993	4.58E-09	0.79
28111	333034	333268	1.52E-12	0.89
28118	35513	35882	4.30E-25	0.86

28118	36429	38019	1.75E-64	0.92
28118	38721	39396	8.72E-39	0.97
28118	39899	40117	2.92E-21	0.94
28118	40592	40936	1.53E-26	0.91
28122	20511	20781	1.80E-09	0.96
28124	37265	37925	5.27E-18	0.8
28124	47461	48928	1.33E-55	0.67
28124	51884	52410	7.07E-32	0.83
28124	71758	71976	1.78E-15	0.82
28127	1220	1592	1.79E-06	0.84
28128	21095	21492	5.07E-34	0.98
28128	22024	22368	1.04E-16	0.9
28128	23010	23520	1.22E-13	0.83
28128	27167	27433	1.00E-10	0.69
28128	38733	39600	1.01E-40	0.88
28128	42637	43073	4.79E-21	0.78
28128	49853	50197	8.11E-31	0.88
28128	61760	61966	1.31E-19	0.92
28128	77021	77900	4.05E-66	0.79
28128	87186	88122	2.51E-111	0.88
28129	6378	6752	2.01E-06	0.8
28134	11092	11427	1.99E-10	0.75
28134	22261	23595	1.34E-35	0.61
28134	30498	31074	1.69E-32	0.89
28134	31345	31599	3.30E-46	0.84
28134	37971	38676	9.94E-38	0.82
28134	39344	39648	1.37E-71	0.95
28134	43016	43298	5.01E-29	0.94
28134	49932	50475	2.50E-16	0.65
28134	50717	51181	7.16E-33	0.88
28134	63306	63894	9.82E-21	0.83
28134	66000	66831	1.78E-46	0.89
28134	105219	106194	5.07E-42	0.88
28135	898	1570	2.97E-06	0.81
28138	29245	29494	3.52E-09	0.87
28138	58139	58475	2.11E-13	0.87
28138	67834	68692	9.05E-15	0.71
28138	89207	89796	2.67E-15	0.82
28139	8070	8346	3.48E-07	0.62
28140	29159	29532	2.26E-38	0.92
28140	35954	36246	1.36E-13	0.84
28140	38458	38970	1.13E-21	0.8
28140	39558	42493	1.33E-103	0.87
28140	47384	47585	7.55E-40	0.9
28140	47820	48170	2.02E-25	0.75
28140	48386	48815	1.00E-25	0.84
28141	3330	3631	2.39E-10	0.66
28143	17657	18281	3.28E-08	0.83
28143	49138	49356	3.25E-06	0.78
28143	65528	66080	1.01E-19	0.91
28143	110816	111022	2.33E-06	0.86
28147	6208	6453	1.62E-10	0.83
28147	35140	36072	4.82E-28	0.78

28147	41006	41242	9.93E-12	0.82
28151	5651	6258	9.52E-48	0.81
28151	6585	6843	1.11E-10	0.76
28151	11662	12618	6.68E-56	0.94
28152	12489	12808	1.93E-12	0.87
28152	22984	23790	2.54E-14	0.76
28152	25615	26270	2.97E-33	0.6
28152	30427	31141	4.68E-43	0.93
28152	44880	46262	7.11E-50	0.85
28152	50077	50429	4.90E-20	0.8
28152	56693	57260	8.18E-32	0.89
28152	68902	69146	1.49E-33	0.82
28152	85622	85959	5.89E-25	0.93
28152	86174	86462	3.87E-38	0.9
28152	87856	88168	2.66E-22	0.7
28152	91223	91544	4.26E-14	0.8
28152	93308	94715	7.32E-52	0.73
28152	105731	106398	3.32E-54	0.83
28152	114884	115108	3.18E-29	0.88
28152	116110	116875	3.64E-41	0.67
28152	117109	117470	8.40E-34	0.88
28152	150990	151276	5.40E-16	0.82
28152	163561	163781	1.80E-17	0.82
28152	174375	174976	8.53E-44	0.88
28152	187912	188785	2.76E-43	0.8
28152	188993	189649	3.10E-23	0.74
28152	196220	196636	3.39E-18	0.76
28152	208828	209469	3.48E-30	0.62
28152	216602	217271	1.19E-38	0.82
28152	217920	219324	4.34E-85	0.8
28152	244241	244633	1.20E-17	0.72
28152	246097	247185	9.57E-105	0.94
28152	247817	248428	3.58E-35	0.86
28152	248693	249836	2.09E-52	0.89
28152	296134	296814	2.75E-12	0.74
28152	303986	304858	7.37E-28	0.78
28152	305124	305368	2.05E-17	0.8
28152	305570	306077	1.37E-14	0.82
28152	306292	306532	2.50E-23	0.91
28153	2133	2606	7.91E-26	0.65
28153	30683	31349	3.09E-29	0.65
28153	35260	36054	1.16E-32	0.6
28153	37124	37363	1.51E-10	0.81
28153	42177	42735	6.19E-16	0.82
28153	44244	44546	3.55E-16	0.81
28153	53430	54661	2.15E-59	0.88
28153	56923	59598	2.55E-105	0.82
28153	63729	64364	2.38E-13	0.89
28153	65615	66294	4.89E-19	0.82
28153	67724	68076	4.06E-23	0.93
28153	86887	87527	9.41E-33	0.81
28153	90128	90643	2.84E-23	0.65
28154	6953	7164	1.62E-10	0.79

28154	10738	11310	1.40E-75	0.88
28154	14807	15013	9.76E-06	0.63
28159	9489	10420	4.90E-47	0.9
28159	12762	13004	1.02E-11	0.77
28162	12698	13631	6.46E-53	0.84
28162	24691	25125	5.79E-14	0.6
28162	39407	39779	1.76E-70	0.86
28162	39989	40401	2.82E-27	0.85
28162	49549	50350	3.89E-70	0.9
28162	62596	63101	8.46E-32	0.84
28162	75904	76439	2.64E-13	0.68
28163	6202	7162	4.37E-27	0.71
28164	20921	21828	2.02E-65	0.89
28165	14165	14429	2.27E-13	0.88
28165	20947	21309	1.48E-12	0.96
28166	2297	3142	7.99E-17	0.8
28166	5419	6591	5.47E-97	0.67
28166	8599	8897	1.41E-22	0.96
28166	23844	24472	1.44E-28	0.72
28166	41627	41972	1.31E-22	0.84
28166	54967	55292	3.72E-23	0.9
28166	120758	122040	1.25E-62	0.82
28166	122731	123286	4.35E-21	0.76
28166	139683	139906	1.41E-13	0.8
28166	157134	157680	2.19E-56	0.83
28166	171188	171958	2.61E-36	0.62
28166	188989	189916	3.67E-68	0.85
28166	192496	192998	1.12E-11	0.81
28166	203403	203929	1.62E-10	0.6
28166	207871	208416	6.91E-17	0.85
28166	209592	209824	2.36E-27	0.89
28166	211117	212130	2.59E-34	0.82
28166	217923	218451	8.18E-26	0.94
28166	218718	218949	1.72E-24	0.96
28166	232895	234171	6.60E-81	0.88
28166	234381	235194	8.12E-21	0.77
28166	235638	236077	1.01E-19	0.91
28166	236313	236675	9.15E-20	0.93
28166	239170	240328	1.89E-59	0.84
28166	258901	259112	6.66E-23	0.78
28166	260076	260507	2.34E-22	0.86
28166	265044	266008	1.31E-49	0.93
28166	267866	268110	2.90E-24	0.75
28166	292770	293075	4.38E-11	0.79
28166	386193	386586	8.08E-22	0.91
28166	437615	437998	6.31E-38	0.94
28166	451988	452325	4.55E-14	0.69
28166	465391	465735	4.78E-09	0.76
28166	468835	470164	1.91E-52	0.68
28166	470675	471187	1.39E-14	0.78
28166	471630	472487	1.43E-20	0.81
28166	489949	490531	3.01E-10	0.8
28166	493939	494660	4.20E-70	0.91

28166	509306	509951	1.94E-99	0.72
28166	510166	510524	1.37E-19	0.88
28166	510764	511088	1.81E-34	0.84
28166	515099	515693	1.11E-17	0.62
28166	531673	533547	5.05E-173	0.7
28166	546756	547200	3.32E-08	0.64
28166	549052	549612	8.53E-27	0.81
28166	577258	577846	1.48E-27	0.83
28166	596666	596897	2.87E-09	0.72
28169	9122	10033	9.69E-31	0.84
28169	10334	11120	2.54E-51	0.71
28170	310	744	3.53E-08	0.81
28173	5170	6096	1.49E-43	0.64
28173	7035	8144	8.52E-57	0.78
28173	9750	10740	9.75E-46	0.75
28176	6073	6333	8.73E-40	0.69
28176	6611	7037	8.45E-38	0.87
28176	7795	9536	6.57E-100	0.93
28176	9742	10336	8.66E-33	0.89
28176	18497	18939	5.40E-22	0.82
28176	19514	19774	6.47E-23	0.72
28176	25438	26918	4.03E-76	0.88
28176	31730	32003	1.05E-23	0.76
28176	36475	36845	8.79E-38	0.9
28176	37761	38241	1.24E-12	0.82
28176	38683	39433	6.31E-18	0.75
28176	56147	58503	6.30E-78	0.78
28176	58919	59721	3.41E-70	0.95
28176	59974	60690	7.72E-44	0.61
28176	70519	70934	6.89E-05	0.9
28176	72364	72953	2.25E-21	0.83
28176	74301	74898	6.30E-13	0.78
28176	75327	75844	1.28E-21	0.84
28176	76075	76373	4.85E-24	0.79
28176	77772	78020	1.70E-21	0.88
28176	80943	81180	9.29E-38	0.91
28176	81538	81934	4.88E-47	0.72
28179	6762	7060	4.54E-08	0.78
28179	30472	30690	1.10E-10	0.85
28179	55749	56211	5.73E-12	0.73
28179	58216	58572	2.74E-37	0.9
28179	91282	91865	1.20E-23	0.86
28179	115394	115970	1.81E-39	0.86
28179	136457	137302	7.16E-51	0.81
28179	148336	148714	1.79E-18	0.88
28179	169784	170630	3.41E-30	0.78
28179	184046	184635	6.53E-47	0.86
28179	192308	192757	2.49E-39	0.91
28179	201879	202240	3.36E-38	0.93
28179	210372	210649	9.18E-22	0.96
28180	1135	1903	3.03E-22	0.82
28180	6048	6379	6.12E-21	0.87
28180	11020	11527	7.55E-13	0.68

28180	26098	26440	9.50E-10	0.73
28180	80639	81308	2.30E-51	0.85
28180	85897	86246	3.69E-46	0.93
28180	87690	87979	6.43E-31	0.84
28180	91609	92007	5.72E-23	0.69
28180	125221	125437	1.74E-24	0.8
28186	15511	15755	4.65E-21	0.86
28186	19578	19928	6.34E-06	0.74
28191	81	318	6.43E-22	0.7
28192	472	796	1.14E-09	0.73
28192	22165	22454	1.18E-11	0.95
28192	44366	44844	2.43E-39	0.91
28192	49854	50158	1.07E-26	0.76
28192	66109	66583	1.94E-12	0.69
28193	5392	6091	1.52E-43	0.91
28193	6896	7241	1.06E-21	0.92
28193	60623	61820	1.59E-77	0.91
28193	67994	68659	7.27E-28	0.78
28193	79781	80334	5.09E-16	0.78
28193	80818	81486	2.68E-28	0.81
28193	112974	113434	9.15E-14	0.75
28193	114216	114803	9.57E-50	0.89
28196	8590	10513	1.05E-78	0.73
28196	26024	26406	2.94E-31	0.76
28196	40188	40393	1.90E-09	0.79
28196	43395	43625	5.05E-18	0.66
28196	85649	85942	4.72E-14	0.9
28196	87532	88132	2.74E-38	0.68
28196	110656	111471	1.05E-27	0.76
28196	125868	126129	1.46E-13	0.78
28197	6990	7314	2.91E-32	0.82
28197	13915	14592	1.89E-50	0.96
28197	17086	17493	2.15E-36	0.98
28197	17839	18129	7.40E-40	0.97
28199	6116	6504	2.64E-85	0.92
28199	7426	7829	3.71E-27	0.93
28200	35301	36724	2.67E-23	0.76
28200	43989	44691	2.20E-68	0.79
28200	49902	50770	3.71E-32	0.78
28200	97705	97909	4.78E-14	0.85
28202	7865	8702	1.82E-42	0.97
28202	14298	14515	1.13E-12	0.98
28202	31288	31666	1.06E-23	0.81
28202	32080	34453	1.62E-94	0.84
28202	34914	35149	1.34E-15	0.83
28202	36238	36650	7.16E-16	0.88
28202	42119	42504	1.90E-22	0.81
28202	42767	43555	1.64E-17	0.63
28202	43812	44022	5.35E-23	0.63
28202	59426	59704	4.73E-23	0.86
28205	5186	5485	6.44E-42	0.91
28205	6140	6430	7.63E-27	0.66
28205	18217	19333	6.24E-28	0.7

28205	23357	23944	7.90E-34	0.69
28206	5559	6306	2.43E-23	0.79
28207	13867	14864	9.29E-20	0.65
28207	25646	25925	4.91E-24	0.8
28207	67211	67480	3.73E-15	0.78
28207	68425	69136	4.46E-21	0.64
28207	73967	74905	8.00E-23	0.74
28208	17720	17925	2.58E-10	0.82
28208	22562	23246	1.71E-37	0.82
28208	23848	24786	9.75E-35	0.89
28208	39044	39664	9.58E-21	0.7
28211	2630	3230	5.28E-37	0.83
28211	10448	11143	3.17E-26	0.87
28211	11934	12516	1.80E-59	0.96
28211	13071	13502	1.59E-101	0.95
28211	18543	18811	9.57E-24	0.9
28211	74583	74897	5.41E-10	0.78
28212	7723	7963	8.92E-07	0.91
28212	8746	9184	1.37E-08	0.91
28212	16558	17081	4.07E-14	0.73
28212	59807	60180	5.61E-06	0.93
28212	91615	91816	1.59E-05	0.85
28212	119571	119988	1.01E-06	0.79
28212	120326	120619	7.04E-10	0.98
28212	135476	135907	1.72E-11	0.83
28215	25428	25672	2.70E-07	0.77
28219	15864	16277	1.90E-40	0.88
28219	16482	17179	1.81E-84	0.89
28220	2918	3657	4.46E-10	1
28220	35882	36182	2.95E-13	0.89
28220	50895	51123	3.46E-03	0.89
28220	57639	57987	4.32E-05	0.82
28220	60306	60852	2.69E-09	0.85
28220	62790	63255	9.28E-06	0.86
28223	14028	14349	1.76E-04	0.73
28223	29166	30094	2.37E-25	0.81
28223	37768	38919	1.10E-83	0.9
28223	45749	46727	1.01E-114	0.8
28223	47436	48078	1.76E-30	0.83
28225	22412	22765	7.97E-21	0.88
28225	23012	23531	4.85E-19	0.94
28225	23761	24402	3.30E-41	0.75
28226	11256	11886	5.85E-44	0.89
28226	15727	16161	7.34E-28	0.81
28226	24813	26382	1.20E-34	0.6
28226	26672	27028	3.88E-41	0.89
28226	27063	27474	3.33E-27	0.85
28226	31407	31784	8.93E-42	0.89
28226	39397	40226	1.60E-34	0.82
28226	40542	40746	7.80E-26	0.86
28226	46958	47210	1.09E-06	0.74
28226	109535	109933	1.22E-17	0.71
28226	110158	110473	3.76E-15	0.87

28226	125748	125998	1.05E-38	0.85
28226	146970	147520	8.04E-28	0.84
28226	154834	155385	3.67E-22	0.79
28226	157835	158694	2.30E-39	0.88
28226	158993	159725	3.57E-32	0.85
28226	160704	161053	1.48E-30	0.83
28226	164595	164942	4.58E-24	0.91
28226	180639	183422	1.78E-157	0.82
28226	186669	188706	6.46E-183	0.75
28226	189615	190200	1.44E-73	0.87
28226	194186	194484	3.58E-25	0.91
28226	201484	201863	5.13E-17	0.76
28226	212318	212595	2.99E-17	0.81
28226	212418	212676	1.58E-16	0.78
28226	238288	239145	9.79E-96	0.88
28226	244001	244207	4.46E-21	0.87
28226	259854	260133	6.39E-20	0.91
28226	261821	262256	2.77E-15	0.81
28226	262684	263541	6.40E-29	0.83
28226	269427	269737	1.39E-19	0.81
28226	277654	277878	1.95E-33	0.96
28228	10993	11195	3.37E-03	0.83
28229	5514	5833	3.52E-26	0.96
28229	6279	6519	8.02E-21	0.8
28230	2000	2264	1.20E-06	0.94
28230	8779	8999	3.27E-09	0.81
28230	9051	9392	3.89E-11	0.89
28233	5187	5715	2.06E-07	0.95
28237	2718	3220	3.16E-19	0.67
28238	6	761	7.64E-23	0.82
28238	3949	4308	3.11E-16	0.74
28240	7817	8023	9.30E-09	0.83
28240	23971	24474	2.79E-07	0.96
28240	26420	26689	6.31E-10	0.97
28240	28091	28361	2.14E-09	0.83
28240	29041	29253	5.19E-06	0.78
28240	29060	29344	8.00E-09	0.81
28240	38357	38666	2.77E-05	0.87
28246	9644	10048	5.10E-34	0.9
28246	12072	13272	4.37E-53	0.8
28246	32112	32447	4.75E-09	0.79
28246	42068	42573	5.36E-09	0.82
28249	1395	2097	1.18E-60	0.94
28256	77506	77863	3.27E-27	0.87
28256	78637	78912	6.77E-32	0.82
28256	81305	81602	2.45E-12	0.7
28256	85290	85898	9.44E-73	0.97
28256	86138	86448	2.38E-52	0.94
28256	93104	93641	4.03E-47	0.79
28257	1281	1572	1.85E-08	0.84
28263	35058	35355	1.78E-33	0.9
28263	36158	37515	2.24E-102	0.91
28263	38761	39519	4.36E-108	0.94

28263	45918	46575	5.12E-68	0.97
28263	47156	47638	1.83E-51	0.95
28263	57175	57479	8.20E-15	0.79
28266	45804	47383	2.84E-135	0.86
28266	49292	49762	5.53E-31	0.74
28266	50313	51710	1.67E-101	0.78
28281	7158	7955	2.77E-38	0.88
28281	36161	36542	2.53E-27	0.9
28281	39406	40021	4.66E-20	0.84
28281	61704	62277	1.61E-09	0.7
28281	64413	65225	2.94E-42	0.87
28281	67769	68289	7.77E-22	0.78
28281	81251	82019	1.40E-21	0.84
28281	92164	92576	8.30E-15	0.69
28281	110351	110974	6.03E-46	0.74
28281	111778	112425	3.80E-29	0.86
28281	117571	117886	1.65E-13	0.73
28281	129413	129877	2.02E-29	0.82
28281	130391	130913	6.61E-26	0.82
28281	133618	134933	1.01E-42	0.73
28281	140590	140844	1.07E-22	0.63
28281	142173	142771	1.61E-15	0.87
28281	147300	148250	6.87E-62	0.78
28281	150055	151419	1.93E-64	0.8
28281	151687	152973	4.86E-51	0.81
28281	157160	157543	1.81E-10	0.89
28282	6426	7155	7.31E-32	0.81
28283	1047	1366	3.19E-07	1
28283	1625	1868	6.18E-05	0.74
28286	7567	7876	2.51E-12	0.97
28286	8796	9101	9.01E-06	0.95
28293	5917	6963	1.32E-50	0.83
28293	7617	8044	3.16E-29	0.91
28293	8522	8809	1.79E-14	0.79
28293	10346	10611	4.50E-14	0.95
28293	14738	17144	2.51E-88	0.84
28293	18244	19595	1.20E-44	0.81
28293	20952	21690	6.35E-36	0.92
28293	25004	26473	1.89E-65	0.91
28296	5365	5610	3.05E-32	0.87
28296	28258	29050	7.87E-25	0.78
28297	49844	50186	2.05E-06	0.62
28297	51308	52734	1.53E-36	0.81
28304	4456	5004	4.84E-08	0.62
28304	16173	17362	4.06E-52	0.83
28304	27351	28416	7.29E-77	0.91
28304	29355	29729	5.22E-32	0.95
28304	30545	31469	2.51E-59	0.9
28304	38522	38761	1.71E-15	0.94
28304	40542	40854	1.03E-10	0.62
28304	68235	68777	6.41E-30	0.66
28304	69044	69397	1.61E-12	0.79
28304	70995	71779	1.00E-28	0.86

28304	74179	74443	3.04E-12	0.68
28304	83525	83835	3.57E-09	0.7
28304	91125	91485	1.76E-13	0.82
28304	108037	108370	3.45E-28	0.94
28308	32346	32578	4.58E-15	0.73
28308	38905	39162	3.67E-13	0.85
28308	39503	39854	5.93E-17	0.81
28308	42326	43631	1.01E-45	0.63
28308	53392	53967	1.34E-41	0.66
28309	4176	4556	9.93E-13	0.96
28309	14102	14475	2.40E-09	0.9
28309	15966	16417	2.19E-08	0.75
28312	4085	4370	3.32E-20	0.84
28312	10682	11240	1.35E-05	0.83
28312	14957	15393	4.59E-10	0.77
28312	74533	75764	1.55E-193	0.94
28312	77101	77444	2.34E-09	0.8
28312	83351	84100	3.23E-25	0.77
28318	7640	8693	2.47E-44	0.82
28318	7832	8695	9.90E-40	0.81
28320	506	830	1.59E-08	0.69
28320	34939	35566	1.55E-26	0.79
28320	35773	36291	3.72E-27	0.85
28320	45423	45988	1.64E-18	0.84
28320	46216	46927	1.10E-35	0.78
28320	47149	47523	1.83E-16	0.87
28320	47419	47658	1.02E-15	0.82
28320	49321	49696	9.55E-18	0.9
28320	62308	62733	1.45E-22	0.86
28320	65626	66336	1.01E-06	0.7
28320	67408	68585	4.09E-69	0.78
28320	69594	70036	4.37E-14	0.65
28320	98438	98727	3.19E-20	0.95
28320	153003	153571	8.29E-13	0.86
28320	154204	154657	1.37E-21	0.79
28320	186381	186711	1.09E-27	0.87
28320	206531	206965	6.14E-27	0.88
28320	215065	215372	5.49E-08	0.76
28320	218355	218804	2.11E-14	0.81
28320	219321	219786	9.20E-32	0.81
28320	220493	220951	6.98E-37	0.72
28320	307036	307276	6.54E-29	0.84
28320	307525	307901	3.71E-22	0.82
28320	310753	311729	2.22E-43	0.86
28320	315005	315382	1.39E-29	0.79
28320	316551	317316	1.14E-38	0.79
28320	317780	318061	2.03E-37	0.97
28320	325511	325819	8.11E-33	0.94
28320	326507	326917	4.17E-18	0.83
28320	334925	335228	2.62E-53	0.78
28320	340221	340664	9.38E-24	0.89
28320	340959	341440	9.47E-41	0.82
28320	380309	381114	4.44E-25	0.79

28320	384910	385127	3.52E-15	0.87
28320	404838	405536	8.37E-56	0.89
28320	426313	427526	4.02E-28	0.77
28320	443479	443936	3.88E-09	0.77
28320	451603	452106	2.64E-09	0.86
28321	14339	14696	1.09E-12	0.79
28324	29380	29836	7.23E-11	0.72
28324	52654	53017	1.69E-22	0.84
28324	58387	58818	9.38E-30	0.89
28324	107507	107731	5.41E-13	0.64
28324	126510	126913	7.43E-18	0.85
28324	138566	138890	1.75E-06	0.81
28327	5196	5713	2.01E-24	0.78
28327	48138	48751	3.05E-19	0.79
28327	73592	74785	1.39E-41	0.61
28327	81186	81386	1.30E-08	0.83
28327	88931	89149	2.94E-31	0.89
28327	89912	90166	1.63E-19	0.84
28327	101543	102181	3.06E-39	0.91
28327	105604	106374	6.74E-38	0.82
28327	108572	109296	6.86E-25	0.8
28327	110855	111337	2.58E-16	0.75
28327	133417	134019	1.07E-26	0.76
28327	156556	156902	1.99E-10	0.61
28327	173651	174013	9.08E-30	0.79
28327	177345	177875	1.46E-62	0.93
28327	216557	217055	3.97E-43	0.78
28327	218592	218897	3.43E-66	0.89
28327	223575	224284	6.69E-45	0.86
28329	6925	7301	1.04E-27	0.92
28329	9563	10098	6.09E-35	0.89
28329	16679	17049	1.73E-32	0.65
28329	20899	21182	6.35E-20	0.86
28329	32672	33427	9.62E-29	0.82
28331	7522	8141	1.82E-48	0.74
28331	15291	15735	1.25E-25	0.83
28333	19432	20178	3.06E-37	0.81
28333	30500	31033	3.46E-55	0.87
28333	57191	57589	2.63E-10	0.75
28333	66620	67208	8.42E-36	0.89
28333	74128	74597	1.01E-18	0.88
28333	75454	75666	4.05E-29	0.88
28333	77024	77440	1.14E-34	0.85
28333	88216	88882	7.29E-23	0.8
28333	89937	90566	5.24E-26	0.85
28333	94558	95062	3.89E-28	0.61
28333	120425	121211	3.47E-27	0.82
28333	125008	125228	3.30E-16	0.89
28333	129463	130301	2.88E-31	0.7
28333	176055	176428	5.51E-40	0.95
28333	178341	178731	9.32E-39	0.92
28333	180570	181521	9.68E-132	0.96
28333	261087	261708	2.37E-26	0.82

28333	271757	272570	1.40E-45	0.7
28333	311723	312183	1.29E-16	0.62
28342	4409	4873	9.99E-31	0.91
28342	5565	5845	8.77E-20	0.92
28342	6811	7638	2.28E-49	0.89
28342	11003	11428	6.69E-25	0.66
28345	6370	6577	3.15E-23	0.87
28345	13905	14641	5.04E-40	0.92
28345	15311	15646	1.66E-19	0.91
28345	67695	68593	2.65E-19	0.82
28348	15398	15703	4.46E-11	0.62
28348	19582	20706	5.67E-22	0.86
28349	31572	31928	8.88E-27	0.79
28349	34310	36012	2.44E-137	0.9
28350	26549	29366	2.54E-165	0.83
28350	29934	30636	1.83E-61	0.88
28355	1307	1699	4.88E-15	0.62
28355	31133	31358	4.45E-26	0.88
28357	9814	10427	3.67E-54	0.84
28357	10642	11493	2.66E-70	0.93
28357	13637	14531	6.44E-68	0.89
28357	19197	20154	4.67E-37	0.68
28357	21478	22090	4.00E-19	0.83
28357	24959	25425	3.20E-16	0.88
28357	25768	26261	3.11E-27	0.87
28357	26979	27283	6.63E-14	0.89
28357	27509	27854	3.07E-22	0.7
28357	44617	45201	1.12E-10	0.61
28357	50809	51504	1.11E-27	0.73
28357	53612	53835	3.52E-08	0.74
28357	54884	55311	2.12E-19	0.88
28359	78	499	5.52E-10	0.61
28359	7279	8390	1.07E-53	0.75
28359	15808	16207	4.20E-42	0.94
28359	19033	19565	1.08E-36	0.95
28359	22989	23401	8.39E-54	0.93
28359	23741	24028	1.41E-22	0.85
28359	59557	60093	1.87E-62	0.95
28359	60390	61158	1.07E-84	0.91
28359	79749	80557	3.15E-49	0.91
28359	111972	112239	5.29E-41	0.89
28359	117198	117418	6.24E-45	0.93
28359	117836	118879	1.35E-70	0.93
28359	120534	120959	6.65E-46	0.89
28359	128786	129095	6.38E-16	0.85
28359	131365	132313	2.83E-43	0.88
28359	134991	135310	1.52E-15	0.84
28359	165979	166293	5.61E-22	0.73
28359	172720	172934	2.13E-15	0.84
28359	173226	173865	1.19E-28	0.86
28359	176245	176706	1.77E-24	0.9
28359	177245	177809	5.27E-27	0.88
28359	202663	202904	7.87E-12	0.81

28359	203128	203963	1.01E-40	0.85
28359	204170	204724	1.86E-46	0.96
28359	204931	206402	1.19E-72	0.63
28359	209812	210156	2.07E-09	0.92
28359	237586	237810	3.04E-05	0.95
28359	240097	240584	1.07E-03	0.92
28359	273262	273838	4.64E-19	0.66
28361	6569	6874	1.81E-06	0.91
28362	12970	13829	7.03E-88	0.96
28362	14547	15766	6.33E-43	0.89
28372	309	855	1.71E-11	0.96
28383	6203	6481	3.05E-10	0.83
28385	61355	61805	2.25E-05	0.86
28391	22	1087	3.06E-66	0.76
28392	18944	19308	5.02E-20	0.71
28392	25598	25891	1.13E-16	0.81
28392	31975	33547	1.86E-84	0.75
28392	59757	60901	4.88E-43	0.64
28392	70282	70671	2.99E-10	0.9
28394	1468	2147	3.82E-06	0.89
28401	5755	6033	1.11E-12	0.85
28401	9878	10129	2.51E-19	0.83
28402	10624	10975	3.40E-33	0.73
28402	16788	17424	2.27E-07	0.85
28402	19570	19834	8.90E-10	0.81
28405	7311	7689	9.54E-26	0.73
28406	12208	12439	2.26E-33	0.86
28406	18476	19015	1.41E-12	0.96
28408	804	1121	2.27E-06	0.34
28408	809	1128	9.14E-06	0.39
28408	35091	35410	2.33E-76	0.89
28408	39639	39922	9.89E-32	0.99
28408	48385	48793	4.43E-68	0.98
28408	59030	59819	1.84E-30	0.77
28408	83897	84474	9.15E-26	0.68
28408	86927	87301	3.07E-43	0.74
28408	87513	88211	1.36E-22	0.73
28408	92815	93688	5.27E-77	0.94
28408	94258	95382	9.22E-60	0.94
28408	96284	96606	2.41E-51	0.91
28408	98253	98952	7.98E-26	0.73
28408	99745	100301	4.09E-15	0.75
28408	100523	100811	4.97E-40	0.95
28410	8438	8728	6.07E-04	0.84
28410	31809	32009	6.54E-03	0.77
28410	34904	35131	5.13E-07	0.79
28410	61216	61544	2.24E-05	0.84
28410	71438	71796	1.37E-04	0.9
28410	82676	83102	6.90E-07	0.92
28410	83017	83257	4.33E-05	0.95
28411	1390	1930	1.69E-17	0.7
28411	49269	49675	7.38E-08	0.79
28412	2108	2430	7.91E-10	0.8

28412	22947	23451	4.45E-07	0.77
28424	1755	1973	2.49E-10	0.72
28428	7333	8210	4.14E-34	0.91
28428	8950	9352	2.73E-34	0.86
28429	29208	29703	4.11E-16	0.82
28429	56239	56587	4.70E-08	0.86
28429	61158	61560	2.70E-16	0.77
28429	76025	76294	7.07E-07	1
28429	85341	85649	1.31E-23	0.81
28430	7303	7646	4.09E-05	0.88
28431	30329	30611	2.60E-08	0.77
28438	11141	11865	3.82E-55	0.93
28438	12740	13148	1.35E-45	0.85
28442	2458	3645	3.06E-45	0.96
28447	6200	6557	2.80E-13	0.76
28447	20008	20489	6.56E-20	0.71
28448	15828	16319	3.12E-18	0.81
28448	16927	17830	3.42E-25	0.82
28448	95943	96302	6.45E-55	0.95
28448	111063	111447	9.42E-26	0.87
28448	122797	123169	1.38E-11	0.84
28448	124348	125352	1.27E-41	0.86
28448	125569	126301	1.74E-50	0.87
28448	156598	156887	2.57E-05	1
28448	180245	180835	6.42E-37	0.79
28448	186078	186491	1.23E-21	0.9
28448	193568	193942	6.38E-13	0.86
28448	194159	194698	3.41E-94	0.93
28448	206339	206659	8.66E-19	0.91
28448	206867	207144	4.64E-17	0.81
28448	231466	232562	7.83E-48	0.7
28448	245006	245272	1.51E-05	0.75
28449	4628	4988	7.70E-49	0.96
28449	5822	6048	3.54E-16	0.95
28449	18974	19521	3.03E-30	0.77
28450	826	1424	1.17E-22	0.96
28452	10800	11967	3.66E-58	0.81
28452	14391	14643	1.15E-11	0.77
28454	1372	1606	7.61E-05	1
28455	17968	18467	2.55E-48	0.94
28455	19132	20025	5.92E-43	0.92
28455	21173	21598	7.79E-16	0.78
28455	51080	52114	1.39E-38	0.75
28455	82158	82460	4.75E-44	0.77
28455	82695	83168	3.28E-45	0.84
28455	83423	84414	1.71E-20	0.63
28455	155338	155881	2.38E-52	0.83
28455	159750	159996	5.07E-31	0.9
28456	15498	16017	2.21E-20	0.82
28456	19544	19870	7.39E-07	0.75
28458	31163	31447	2.26E-32	0.81
28460	6657	8245	3.36E-49	0.74
28460	10042	10255	2.56E-19	0.74

28460	10913	12027	1.32E-37	0.85
28460	15924	16557	2.65E-29	0.71
28462	10852	11182	4.26E-09	0.8
28462	12647	13728	8.11E-78	0.79
28462	22870	23098	4.35E-24	0.89
28462	29196	29946	1.53E-11	0.77
28462	30541	31721	2.57E-68	0.73
28462	39373	40367	1.83E-57	0.88
28462	40582	41060	1.21E-26	0.91
28462	41296	42051	5.29E-43	0.9
28469	11217	11851	2.96E-43	0.93
28469	12232	12786	2.44E-81	0.93
28469	14433	15080	8.51E-51	0.92
28469	32536	32744	3.80E-22	0.86
28469	32992	33879	2.24E-38	0.88
28469	34100	35078	8.71E-24	0.86
28469	35326	36513	6.94E-60	0.71
28469	40977	41301	1.09E-10	0.91
28469	52858	53344	4.21E-23	0.81
28470	12822	13286	1.24E-27	0.8
28470	41234	41715	2.90E-47	0.82
28470	41971	42327	2.18E-37	0.84
28470	48918	49589	2.45E-32	0.97
28470	61184	61738	9.61E-08	0.68
28470	82675	83059	2.11E-53	0.91
28470	92957	93653	2.50E-28	0.84
28470	94082	94771	8.71E-59	0.89
28470	97967	98459	8.45E-36	0.85
28470	98890	99285	1.13E-37	0.61
28470	104377	105105	1.27E-45	0.85
28470	105843	107161	1.96E-82	0.88
28470	111193	112437	3.45E-67	0.85
28470	112863	113106	2.41E-18	0.84
28470	114408	114895	7.98E-11	0.61
28470	116274	116777	1.80E-41	0.91
28470	120824	121135	2.68E-05	0.67
28470	124385	125582	1.89E-26	0.77
28470	128475	129296	1.17E-54	0.82
28470	130031	130362	2.72E-43	0.85
28470	131003	132827	2.15E-135	0.67
28470	152682	153038	3.32E-19	0.96
28470	153722	155236	2.98E-61	0.77
28470	171148	171672	7.09E-11	0.81
28470	174938	175940	3.63E-66	0.81
28470	176794	177992	2.04E-34	0.72
28470	180435	180665	4.43E-10	0.73
28470	184269	185321	7.50E-53	0.69
28470	194547	194759	5.51E-13	0.89
28470	204937	205278	4.41E-75	0.83
28477	2801	3105	1.61E-03	0.86
28479	11544	11791	5.46E-11	0.79
28479	18205	19344	1.18E-23	0.73
28479	32086	33222	1.35E-111	0.93

28479	33584	34566	3.83E-62	0.94
28489	7741	8331	2.54E-31	0.76
28489	8748	9393	2.34E-48	0.88
28489	9412	9778	9.88E-15	0.78
28489	9982	10452	3.66E-48	0.87
28489	12180	13190	1.47E-31	0.83
28489	13486	14666	3.89E-58	0.88
28490	7413	7727	7.94E-08	0.84
28490	9540	9861	1.45E-13	0.81
28492	6078	6877	3.02E-42	0.85
28492	7174	7527	7.79E-16	0.87
28492	7916	8189	1.30E-13	0.83
28492	11808	12134	1.18E-19	0.85
28492	16688	17541	1.05E-33	0.79
28492	22407	22896	2.24E-12	0.66
28492	26728	27009	1.37E-05	0.93
28492	48358	48713	7.21E-22	0.89
28492	51181	52103	2.62E-22	0.63
28492	79107	79527	8.36E-14	0.65
28492	79760	80235	7.81E-49	0.82
28492	82171	82776	1.86E-62	0.83
28492	83279	84139	3.66E-56	0.85
28492	99420	100281	8.08E-43	0.86
28492	104743	105124	9.26E-30	0.93
28492	112584	113041	1.41E-26	0.91
28492	113475	113942	3.25E-48	0.96
28492	116666	117102	1.05E-09	0.92
28492	134981	136108	2.48E-73	0.87
28492	156037	156879	1.84E-37	0.79
28492	167587	168037	5.87E-19	0.87
28492	168316	168743	6.26E-28	0.78
28492	175232	175497	4.38E-09	0.82
28492	177906	178261	1.82E-14	0.85
28498	14117	14683	2.85E-23	0.94
28498	30914	31427	1.78E-42	0.62
28498	34263	35246	4.82E-189	0.88
28498	35676	36233	6.42E-39	0.93
28498	36822	37130	3.12E-13	0.82
28498	38521	39224	2.49E-47	0.92
28498	54434	54997	6.23E-39	0.98
28498	69623	69868	7.32E-09	0.88
28498	89398	90724	8.91E-56	0.88
28502	8876	9274	7.62E-07	0.85
28502	15776	16146	1.97E-07	0.79
28504	47347	47848	1.20E-05	0.96
28504	51836	52239	2.21E-09	0.62
28505	8743	8995	6.80E-26	0.77
28505	9557	9894	3.06E-12	0.6
28505	13957	14230	3.56E-10	0.69
28505	23027	23378	1.09E-29	0.97
28505	40310	41579	1.31E-54	0.87
28505	41942	42384	1.68E-41	0.95
28505	43808	44123	1.26E-08	0.73

28505	51980	52214	7.99E-25	0.84
28507	26753	28128	1.33E-28	0.77
28507	29840	30337	2.08E-54	0.66
28507	55938	56386	9.28E-11	0.69
28507	76607	77182	7.06E-07	0.74
28507	77403	78510	2.60E-24	0.61
28507	90900	91179	4.17E-16	0.85
28507	91634	92050	2.99E-08	0.78
28507	123398	123718	1.09E-33	0.84
28507	125732	126044	1.94E-18	0.92
28507	127205	127452	8.38E-19	0.79
28509	508	773	4.02E-24	0.77
28509	1548	1985	6.56E-16	0.77
28509	12654	13626	1.06E-97	0.93
28509	36986	37218	1.07E-06	0.8
28509	45369	45862	6.56E-07	0.85
28509	51231	51643	1.45E-14	0.86
28511	7188	8479	1.40E-26	0.83
28515	10075	10465	7.72E-19	0.76
28515	11582	11884	1.23E-10	0.85
28515	14089	14535	1.33E-39	0.95
28515	26050	27151	1.20E-59	0.95
28515	38481	38702	2.46E-09	0.87
28515	55037	56235	9.95E-35	0.7
28515	56627	56866	2.36E-17	0.81
28515	57148	57916	7.66E-41	0.87
28515	60330	60694	6.39E-55	0.85
28515	60993	61855	3.30E-24	0.83
28515	75674	76344	1.36E-58	0.9
28515	88535	89124	2.51E-45	0.88
28515	89727	90610	4.04E-82	0.87
28515	151847	152403	1.19E-44	0.96
28515	154148	154505	5.93E-16	0.85
28515	166459	166904	2.40E-12	0.74
28517	21485	21694	7.76E-09	0.91
28522	2182	2410	2.22E-32	0.96
28522	6756	6994	4.89E-52	0.95
28522	7238	7612	5.61E-37	0.94
28524	4877	5212	1.52E-18	0.79
28525	6785	7147	2.41E-05	0.84
28525	14458	14805	1.49E-09	0.85
28525	96261	96715	7.67E-26	0.77
28525	107517	110022	2.93E-125	0.85
28525	151821	152508	2.50E-12	0.6
28525	165785	166922	1.74E-52	0.79
28525	168454	168859	7.51E-23	0.84
28525	171909	172215	4.26E-17	0.79
28525	172992	173402	2.80E-27	0.93
28526	1884	2347	1.38E-31	0.9
28527	55205	55700	1.76E-06	0.96
28527	60355	60705	2.49E-07	0.89
28527	68970	69234	1.16E-13	0.82
28534	25691	26120	3.50E-06	0.91

28535	1835	2229	4.34E-21	0.75
28535	4689	4916	3.33E-05	0.79
28535	15493	15792	7.16E-19	0.83
28535	16010	16223	3.51E-26	0.9
28535	16676	17374	8.77E-69	0.9
28535	18042	18495	7.75E-22	0.83
28535	25085	26357	9.46E-37	0.84
28535	31614	32421	2.42E-42	0.81
28535	47102	47308	2.52E-26	0.94
28535	48344	48891	1.04E-32	0.74
28543	50160	50539	3.23E-21	0.91
28543	52982	53484	3.71E-32	0.85
28543	57809	58324	4.45E-20	0.85
28543	91160	92222	2.36E-58	0.77
28543	92501	94878	7.50E-69	0.83
28543	95383	95831	3.34E-44	0.98
28543	96159	96692	1.38E-15	0.81
28543	96902	97374	2.34E-23	0.91
28543	98101	98482	8.47E-23	0.86
28543	107257	107546	9.46E-07	0.75
28543	111746	111953	3.30E-28	0.93
28543	121061	121526	2.72E-29	0.89
28543	121856	122102	2.45E-22	0.91
28543	122471	123012	1.28E-15	0.84
28546	4234	5719	1.57E-89	0.83
28546	8383	9232	2.73E-43	0.86
28546	16147	16428	1.60E-29	0.93
28546	17111	17753	7.31E-30	0.87
28546	20539	20905	2.86E-37	0.84
28547	933	1179	3.77E-04	0.81
28548	4175	5122	1.02E-31	0.86
28552	16354	16700	1.02E-32	0.96
28552	18409	18785	7.76E-14	0.74
28562	72832	73144	7.86E-05	0.86
28562	80445	81023	1.49E-08	1
28562	107724	108140	2.63E-12	0.81
28562	108620	109286	1.35E-53	0.94
28562	109502	109937	5.28E-16	0.9
28563	15614	15898	1.24E-38	0.89
28563	22590	23791	2.17E-76	0.78
28563	27662	27998	4.35E-42	0.93
28563	30261	30538	5.55E-10	0.94
28563	38087	38374	3.34E-44	0.94
28563	43340	44002	1.83E-35	0.75
28565	20178	21056	1.89E-52	0.94
28565	24053	24429	3.50E-25	0.85
28565	54639	54971	1.83E-24	0.77
28565	62169	64152	2.09E-97	0.8
28565	119148	120278	2.68E-27	0.63
28567	11364	12536	3.64E-26	0.8
28572	7594	7834	9.53E-17	0.95
28579	51	446	4.00E-09	0.95
28579	1735	1986	9.92E-07	0.96

28580	3421	3698	2.09E-22	0.92
28580	12655	13017	9.75E-19	0.87
28582	22523	23414	4.79E-38	0.79
28582	24192	25065	1.83E-32	0.81
28582	30985	31648	1.03E-19	0.64
28582	48856	49214	5.44E-28	0.82
28582	100339	100621	6.53E-12	0.9
28582	123711	123985	3.90E-16	0.77
28582	128169	128695	1.15E-36	0.82
28582	152103	152384	9.81E-34	0.75
28582	162963	163512	5.57E-52	0.61
28582	166466	168095	2.23E-104	0.82
28582	171790	172725	1.16E-50	0.71
28582	175682	176562	2.09E-31	0.77
28582	176966	178579	5.87E-68	0.85
28582	183865	184189	5.44E-17	0.73
28583	22871	23159	3.71E-10	0.79
28583	22908	23270	3.82E-08	0.79
28583	30972	31525	3.30E-37	0.61
28583	31848	32084	1.29E-22	0.93
28583	41609	41872	2.68E-10	0.79
28583	45270	45581	1.80E-19	0.95
28583	50246	50724	1.19E-33	0.86
28583	51410	51659	3.91E-22	0.89
28583	51888	52298	1.11E-15	0.8
28588	749	1262	1.90E-12	0.8
28589	6032	6798	3.90E-30	0.82
28590	5003	5267	1.70E-04	0.87
28592	19	698	1.78E-26	0.81
28592	9475	9736	8.74E-35	0.86
28592	12629	13642	2.46E-32	0.62
28592	14623	14972	4.24E-31	0.87
28592	21127	21599	8.94E-37	0.87
28592	21820	22291	6.24E-19	0.89
28592	46874	47689	9.40E-71	0.82
28592	57199	57412	1.19E-24	0.87
28592	78584	79099	1.80E-09	0.7
28592	96692	98703	3.07E-79	0.76
28592	101952	102503	2.74E-23	0.77
28597	34259	35338	2.68E-43	0.88
28597	41086	41754	3.71E-27	0.91
28597	53850	54489	2.21E-19	0.95
28597	54728	55080	5.56E-15	0.86
28597	68629	70137	2.81E-40	0.77
28597	76839	77197	1.07E-26	0.93
28601	20259	21188	1.45E-44	0.75
28603	22257	22491	4.51E-28	1
28603	26077	26404	1.26E-33	0.97
28603	60683	61347	5.87E-77	0.95
28603	65654	66131	5.66E-45	0.67
28607	10106	10444	4.47E-09	0.84
28607	15915	16160	5.69E-06	0.8
28609	15557	15802	2.64E-04	0.98

28609	21224	21428	3.14E-11	0.64
28609	42661	43074	5.00E-55	0.88
28609	45968	46955	2.82E-55	0.89
28609	52532	53514	1.09E-33	0.66
28609	66013	66789	4.04E-26	0.67
28609	81878	83420	9.70E-42	0.79
28609	88212	88603	1.85E-26	0.64
28609	110426	110646	3.51E-26	0.9
28610	3814	4532	6.29E-69	0.84
28610	4733	5229	9.51E-46	0.86
28610	9061	9411	5.83E-40	0.89
28610	14024	14467	8.59E-24	0.83
28610	15453	16027	8.23E-21	0.84
28611	9126	9488	2.79E-13	0.93
28611	39939	40371	4.92E-16	0.87
28611	40693	40997	4.41E-12	0.84
28611	42936	43339	1.65E-14	0.92
28611	43979	44363	2.64E-33	0.85
28611	54851	55521	2.58E-13	0.71
28611	62123	62424	7.52E-42	0.93
28611	62824	63505	1.43E-59	0.95
28611	72990	73732	1.65E-42	0.81
28611	95239	95719	1.71E-20	0.9
28612	9546	9916	1.31E-10	0.62
28612	14189	14456	9.36E-06	0.89
28612	14951	15699	3.98E-18	0.63
28612	26651	27181	3.72E-47	0.93
28612	28833	29992	3.19E-84	0.83
28612	30247	30504	1.83E-61	0.88
28612	30716	31316	2.88E-52	0.89
28613	2060	2455	2.59E-54	0.84
28613	16702	17415	3.14E-15	0.82
28613	17808	18623	2.66E-54	0.93
28613	22012	22455	4.18E-33	0.91
28613	23731	24061	4.36E-28	0.93
28613	30995	31530	1.40E-32	0.97
28613	35856	36486	1.08E-25	0.8
28613	51952	52998	7.25E-40	0.83
28613	53945	54436	1.22E-10	0.75
28613	75976	76829	4.39E-15	0.87
28614	9557	9821	5.27E-11	0.89
28614	20288	20560	1.96E-04	0.78
28614	26126	26477	1.86E-08	0.92
28615	1594	2210	2.77E-11	0.82
28615	10062	10317	1.17E-17	0.79
28616	13659	14008	3.31E-17	0.91
28616	30549	30870	2.33E-14	0.87
28616	50144	50995	3.86E-33	0.84
28616	52982	54444	1.13E-51	0.78
28616	69660	70347	1.06E-50	0.88
28616	72289	72773	5.93E-38	0.87
28616	72977	73225	9.38E-17	0.91
28616	73445	73769	2.61E-13	0.72

28616	76776	77092	2.27E-26	0.89
28617	6652	7113	3.45E-54	0.94
28617	7982	8429	2.51E-21	0.63
28617	13363	14219	1.60E-26	0.66
28617	14716	15136	1.42E-32	0.88
28617	26872	27420	1.15E-24	0.9
28617	33290	33575	7.84E-58	0.97
28617	33840	34056	5.16E-54	0.95
28617	34374	34628	3.16E-35	0.96
28617	34846	35858	1.81E-122	0.91
28617	73907	74198	4.21E-29	0.86
28623	6141	6802	3.63E-29	0.88
28623	7008	7223	3.36E-27	0.98
28623	7602	8634	7.96E-47	0.87
28623	9600	9904	8.70E-22	0.73
28623	14411	15357	1.31E-60	0.94
28623	24553	25154	1.03E-21	0.82
28623	25387	26715	2.89E-33	0.84
28623	38084	39109	1.60E-50	0.74
28623	76824	77548	5.91E-19	0.67
28623	112059	112526	7.26E-50	0.87
28623	123223	124507	6.10E-55	0.89
28623	128560	130152	4.01E-126	0.84
28623	133837	134450	1.39E-20	0.78
28627	347	821	1.91E-03	0.81
28629	22647	23074	5.79E-29	0.81
28629	23359	24061	7.81E-52	0.89
28629	56627	56949	1.47E-12	0.64
28629	57156	57365	8.77E-47	0.88
28629	57657	58977	2.08E-80	0.9
28629	66567	66817	2.25E-20	0.87
28629	67144	67376	1.08E-15	0.83
28629	68303	68531	4.14E-32	0.75
28629	78298	79083	7.74E-63	0.81
28629	119201	119658	6.08E-74	0.94
28629	137736	138111	6.56E-28	0.82
28629	140881	141523	2.35E-39	0.62
28629	142056	142526	4.12E-20	0.93
28629	163581	163831	6.62E-54	0.88
28635	8964	9257	5.55E-14	0.6
28636	1945	2265	2.64E-07	0.93
28636	2529	3000	1.49E-09	0.73
28637	7428	7714	5.21E-31	0.92
28637	21174	22372	5.50E-89	0.85
28637	34965	35587	2.83E-35	0.75
28637	41483	42500	1.48E-65	0.94
28637	75020	75362	6.67E-19	0.64
28637	76175	76669	8.38E-22	0.8
28639	11141	11558	7.55E-07	0.82
28639	15477	15922	5.08E-09	0.78
28641	16409	17293	3.82E-44	0.6
28641	19535	20139	4.60E-58	0.96
28641	26045	26567	3.71E-41	0.86

28641	27005	27741	8.43E-45	0.92
28641	40910	43554	2.74E-145	0.83
28641	50538	50745	1.06E-12	0.81
28644	840	1142	1.92E-23	0.69
28644	2488	2892	2.44E-11	0.72
28644	30751	31093	4.77E-20	0.85
28644	42355	42759	4.51E-30	0.62
28644	43732	44040	1.82E-11	0.66
28644	49773	50023	3.75E-12	0.83
28644	50335	50829	3.79E-32	0.7
28644	55408	55756	1.60E-22	0.82
28644	57746	58380	1.67E-15	0.86
28644	115244	115458	2.19E-27	0.77
28644	132989	133439	7.32E-35	0.85
28644	147300	148120	7.32E-48	0.9
28644	148921	150350	2.30E-49	0.91
28644	166711	166995	8.40E-61	0.94
28644	168748	170285	9.31E-76	0.84
28644	174834	175252	3.89E-15	0.87
28644	188293	188682	1.07E-19	0.61
28644	195027	195627	2.87E-24	0.67
28644	198818	200048	2.12E-88	0.91
28644	200809	201599	3.71E-22	0.82
28644	277969	278283	7.08E-31	0.97
28644	278519	278744	2.04E-11	0.62
28644	295180	295584	2.46E-13	0.79
28644	296603	296881	8.38E-20	0.83
28644	301692	302219	6.11E-25	0.9
28644	309492	310224	3.11E-28	0.83
28644	316508	317353	2.60E-46	0.81
28644	328312	328760	1.15E-14	0.9
28645	24861	25188	4.64E-06	0.82
28645	26797	27289	4.08E-07	0.93
28649	2163	2490	7.34E-15	0.89
28649	30890	31872	2.05E-43	0.83
28649	32117	32590	6.36E-13	0.67
28649	55787	57641	3.16E-87	0.81
28649	76075	76647	2.37E-14	0.88
28650	9663	9935	7.26E-04	0.79
28650	20478	21053	1.68E-44	0.78
28650	21533	21780	2.10E-48	0.87
28650	36223	36869	1.13E-18	0.94
28650	57490	58931	9.14E-86	0.7
28653	5385	5813	1.74E-15	0.81
28657	10082	10608	5.07E-24	0.83
28657	11346	12114	1.38E-41	0.73
28657	76717	78602	6.61E-102	0.89
28657	98800	99796	1.70E-34	0.88
28657	134798	136134	9.10E-71	0.81
28657	136370	138213	2.25E-125	0.9
28659	940	1362	3.17E-23	0.92
28659	3133	3987	9.37E-36	0.83
28659	16977	17596	7.15E-71	0.85

28659	33676	33933	4.77E-12	0.64
28660	59808	60045	2.99E-15	0.65
28660	66239	67761	7.31E-96	0.69
28660	83145	87465	3.51E-232	0.9
28660	91280	92033	7.00E-170	0.92
28660	127850	128416	7.38E-62	0.82
28660	130183	130671	6.31E-25	0.82
28660	148382	148772	1.61E-16	0.89
28660	157549	157774	1.08E-15	0.83
28660	159601	160037	7.11E-20	0.82
28660	160542	161196	4.07E-15	0.63
28660	174764	175006	3.68E-33	0.91
28661	3431	4032	4.01E-12	0.96
28661	12516	13166	6.61E-16	0.75
28661	22633	23470	7.80E-19	0.91
28663	1943	2192	2.33E-38	0.74
28663	15506	15806	4.30E-27	0.93
28663	16781	18818	1.82E-104	0.64
28663	19205	19503	3.00E-16	0.83
28664	13936	14331	6.56E-88	0.91
28664	15784	16544	1.95E-40	0.9
28664	39841	40417	1.66E-80	0.95
28664	48823	49403	6.41E-36	0.71
28664	52203	52404	5.26E-13	0.71
28664	53018	53669	1.71E-29	0.62
28664	58363	58613	7.26E-11	0.71
28664	91502	91719	5.75E-24	0.91
28664	93836	94256	2.14E-22	0.91
28664	97925	98749	3.50E-15	0.6
28667	62417	62845	5.76E-06	0.93
28670	44105	44813	1.28E-70	0.85
28670	45054	46035	4.08E-39	0.78
28672	7957	8478	1.24E-21	0.66
28673	997	1254	6.45E-06	1
28674	240	1406	8.83E-62	0.86
28677	40084	40896	4.17E-31	0.83
28680	18986	19320	6.33E-19	1
28681	133	440	1.85E-05	1
28684	19793	20133	2.56E-13	0.79
28684	22687	23938	9.81E-54	0.87
28684	25788	27538	1.28E-48	0.75
28691	586	1252	1.38E-127	0.93
28691	7221	7506	2.02E-06	0.72
28691	15068	15388	3.40E-16	0.87
28693	5043	5367	1.97E-13	0.87
28693	6332	6743	5.52E-19	0.79
28693	22489	22975	4.17E-17	0.64
28693	32766	33107	4.52E-30	0.82
28693	42659	43153	2.47E-44	0.85
28694	6088	6865	4.65E-12	0.79
28694	13655	15169	9.59E-61	0.81
28694	37843	38151	1.04E-25	0.92
28694	38383	39870	5.38E-55	0.83

28694	44419	44903	1.67E-18	0.78
28694	52522	54116	6.20E-168	0.71
28694	101665	101986	8.14E-34	0.73
28694	106562	107318	1.03E-27	0.81
28694	107522	108005	9.31E-13	0.86
28694	142348	142826	2.80E-23	0.79
28694	150432	151596	1.54E-56	0.7
28694	168717	169253	2.07E-34	0.83
28694	177282	178086	2.61E-30	0.62
28694	193628	194707	2.02E-67	0.76
28694	196032	196660	8.24E-26	0.8
28694	203487	204139	6.37E-48	0.93
28694	209202	211066	7.44E-74	0.81
28694	213995	214246	7.00E-30	0.86
28694	215021	215840	6.65E-31	0.8
28694	229853	230190	5.21E-15	0.91
28694	300334	300699	1.83E-09	0.83
28698	21982	22415	5.20E-13	0.81
28698	24029	25043	7.44E-139	0.92
28698	26481	27733	2.25E-71	0.85
28699	15042	15356	2.86E-05	0.95
28700	4257	4622	5.01E-06	0.94
28704	8046	8551	3.30E-19	0.94
28704	21074	21574	8.65E-21	0.85
28705	11352	12099	7.10E-34	0.75
28707	57169	57568	1.55E-08	0.88
28707	58517	58765	1.03E-12	0.8
28707	172429	172732	6.88E-09	1
28708	50026	50825	5.31E-124	0.9
28708	64290	66575	1.10E-65	0.74
28713	16133	17096	6.15E-21	0.77
28713	89754	90048	1.42E-16	0.94
28713	126197	126482	1.10E-10	0.82
28717	10248	11191	8.82E-21	0.69
28718	3528	4536	8.10E-70	0.81
28718	19606	20513	5.06E-33	0.74
28718	25527	25949	6.05E-07	0.72
28720	3529	3749	1.14E-11	0.81
28724	1560	1760	2.93E-07	0.9
28725	72247	72501	1.97E-10	0.98
28725	72803	73155	1.79E-32	0.88
28725	74331	75297	1.64E-27	0.86
28725	75747	75964	2.34E-10	0.66
28725	81173	81753	6.23E-31	0.95
28725	86258	86464	3.90E-24	0.96
28725	99938	100797	6.39E-147	0.94
28725	103416	104828	3.28E-33	0.64
28725	105184	105417	7.37E-14	0.89
28725	117468	117733	5.93E-14	0.81
28725	123954	124327	5.63E-35	0.89
28725	125694	125987	1.98E-23	0.84
28725	134333	135097	3.74E-38	0.84
28725	135682	136008	4.57E-38	0.88

28725	136880	137437	1.50E-22	0.84
28725	138608	139271	3.39E-25	0.77
28725	142879	143145	5.31E-21	0.81
28725	170087	171613	1.09E-58	0.67
28725	172640	174577	1.27E-119	0.9
28726	15521	17323	4.08E-123	0.87
28729	11563	11929	1.03E-07	0.87
28732	18742	19045	1.60E-14	0.78
28733	6495	7094	1.84E-05	0.98
28733	6810	7354	6.22E-09	0.97
28735	10921	11239	7.89E-05	0.87
28738	16399	16850	1.15E-06	0.78
28738	31603	32368	4.09E-07	0.87
28738	53572	53907	1.52E-33	0.89
28738	64758	65656	2.37E-28	0.98
28738	69736	71328	2.32E-58	0.67
28738	98688	98905	1.45E-09	0.85
28738	99385	99713	5.86E-10	0.82
28738	120815	121531	6.23E-11	0.87
28738	121859	122228	4.97E-23	0.74
28738	122446	123145	6.97E-18	0.76
28738	154962	155551	9.14E-11	0.88
28738	163895	164112	1.13E-03	1
28738	180414	180913	1.04E-27	0.89
28738	181176	181566	6.62E-29	0.94
28738	182518	182762	5.26E-18	0.96
28738	186406	187341	3.46E-30	0.95
28738	196904	198143	3.19E-32	0.81
28747	28456	29156	4.05E-41	0.91
28747	29887	30385	2.13E-13	0.81
28748	4850	5538	6.18E-21	0.81
28748	5811	6727	9.83E-13	0.69
28748	8974	9228	5.68E-09	0.84
28748	41635	41884	2.83E-08	0.78
28748	45147	45861	4.45E-13	0.75
28748	47115	47611	5.91E-30	0.6
28748	54562	54801	8.51E-15	0.84
28748	69398	69899	4.86E-46	0.82
28748	70210	71725	9.71E-145	0.87
28748	74067	74997	5.60E-85	0.93
28748	76111	76407	4.91E-33	0.94
28748	87770	88167	7.48E-15	0.81
28748	88588	89291	1.94E-53	0.83
28748	91116	92422	2.26E-42	0.68
28748	95417	97284	2.09E-65	0.79
28748	98463	98709	4.21E-09	0.89
28749	8036	8571	5.18E-15	0.77
28752	2494	3062	8.30E-15	0.75
28752	14679	15904	3.17E-80	0.86
28752	20863	21168	2.85E-20	0.91
28752	31240	32066	7.13E-35	0.75
28752	32299	32944	1.83E-23	0.74
28752	47064	47730	1.99E-14	0.79

28752	60787	61315	2.58E-40	0.85
28752	61577	61860	3.71E-45	0.91
28752	67194	67610	5.02E-34	0.94
28752	90646	90939	6.96E-13	0.88
28752	110460	110969	3.28E-18	0.63
28752	111847	112777	2.78E-118	0.9
28752	156747	157038	1.09E-09	0.78
28752	170296	171570	2.07E-45	0.65
28752	186392	186720	3.75E-19	0.85
28754	4740	4962	1.70E-07	0.86
28754	20893	21163	2.02E-04	0.8
28754	22129	22332	1.15E-08	0.82
28762	446	712	7.67E-08	1
28762	644	863	2.83E-03	1
28762	1513	1785	7.93E-04	0.83
28764	11896	12194	6.16E-09	0.96
28764	18174	18557	9.04E-12	0.65
28764	22740	23176	1.85E-12	0.97
28772	5798	6025	4.45E-12	0.79
28772	10886	11300	1.83E-17	0.76
28773	20146	20493	5.74E-08	0.92
28778	13801	14151	3.39E-03	0.78
28779	1086	1763	6.43E-21	0.62
28779	9537	9916	9.62E-25	0.74
28779	13702	14441	9.52E-07	0.88
28779	14985	15279	8.79E-18	0.79
28779	15662	15887	4.74E-20	0.87
28779	18539	19004	1.98E-31	0.87
28779	19404	19883	1.23E-50	0.84
28779	20096	21912	1.74E-50	0.64
28779	28421	28905	8.67E-12	0.63
28779	36896	37402	5.10E-32	0.84
28779	39088	39441	7.02E-24	0.86
28779	70156	70398	1.71E-26	0.89
28781	16583	16820	1.76E-34	0.85
28781	17027	17683	2.06E-27	0.86
28783	5701	6302	1.16E-08	0.95
28784	23390	23862	6.52E-06	0.8
28784	23707	24133	9.36E-11	0.87
28784	29607	29897	6.55E-10	0.96
28787	20378	20711	4.44E-06	0.9
28787	20534	20777	1.53E-04	0.85
28795	293	798	2.11E-15	0.95
28799	11630	11868	2.43E-05	0.9
28802	44619	45037	1.32E-28	0.91
28802	45524	46662	6.58E-53	0.87
28802	47397	47920	3.76E-54	0.96
28802	49126	49601	6.58E-28	0.89
28802	69658	70084	2.53E-59	0.94
28802	70375	70692	1.54E-15	0.78
28802	71980	73348	1.84E-61	0.8
28802	75190	75948	7.52E-12	0.81
28805	753	1016	1.56E-12	0.78

28805	1016	1343	4.06E-06	0.84
28805	9953	10551	4.37E-14	0.96
28806	6560	8906	1.36E-159	0.9
28806	9132	9527	4.65E-21	0.81
28806	28253	29047	2.67E-46	0.73
28806	32435	32723	4.48E-47	0.82
28806	33048	33261	5.32E-25	0.79
28806	45847	46292	4.42E-13	0.66
28806	46995	47782	9.10E-27	0.79
28814	20024	20590	1.89E-21	0.94
28814	30239	30690	1.46E-11	0.92
28814	31858	32115	1.50E-10	0.92
28819	14709	14982	1.69E-04	0.79
28822	144	703	2.76E-32	0.85
28822	4114	4712	7.72E-33	0.8
28822	7628	8928	2.58E-54	0.68
28822	9629	10041	7.33E-19	0.65
28823	5013	6314	1.35E-36	0.76
28827	9045	9647	1.06E-30	0.87
28827	22575	23389	2.11E-32	0.84
28827	23643	24006	6.42E-24	0.85
28827	35243	35456	2.56E-27	0.89
28827	36300	37083	9.29E-37	0.81
28827	45068	45655	2.53E-14	0.74
28827	50746	51390	1.73E-27	0.89
28827	52520	53431	7.17E-28	0.83
28827	55088	55620	4.87E-73	0.94
28828	79216	79462	7.36E-07	0.88
28829	2238	2584	7.58E-19	0.85
28830	23021	23419	1.69E-32	0.76
28830	50296	51656	1.82E-82	0.9
28830	59187	59700	2.13E-20	0.73
28830	61488	63660	1.56E-223	0.74
28830	102480	103039	5.25E-19	0.8
28831	1150	1421	2.29E-06	0.9
28833	11335	12793	2.68E-102	0.93
28833	14277	14640	3.45E-08	0.8
28833	16990	17831	6.55E-32	0.78
28833	19042	19385	2.31E-22	0.88
28833	25468	26421	1.92E-46	0.82
28833	59261	59693	2.01E-05	0.82
28837	8560	9320	4.58E-20	0.84
28837	16544	17160	1.09E-20	0.67
28838	11587	11837	8.42E-14	0.81
28838	54948	55186	1.74E-50	0.9
28838	87930	88391	1.10E-10	0.64
28842	10977	11392	3.57E-35	0.95
28842	11605	12247	5.18E-71	0.89
28842	26604	27508	2.29E-29	0.77
28842	40901	41319	5.43E-19	0.68
28842	42691	43114	1.60E-09	0.73
28842	50610	51254	9.95E-71	0.94
28842	54299	54861	1.53E-32	0.91

28842	70793	71184	9.27E-23	0.91
28842	90209	90466	3.50E-24	0.9
28842	90817	91025	1.88E-20	0.87
28842	97307	97962	3.59E-100	0.81
28842	110517	111584	4.03E-19	0.72
28842	112323	112898	9.39E-16	0.86
28842	115814	116057	3.26E-14	0.85
28842	116895	117330	1.68E-28	0.91
28842	123390	123908	5.40E-15	0.87
28842	158661	158915	9.35E-19	0.66
28842	165884	166510	4.95E-19	0.8
28842	174579	175093	4.74E-45	0.85
28842	180343	180859	1.82E-31	0.81
28842	185426	186623	1.53E-25	0.61
28842	187640	189124	1.17E-28	0.8
28842	194883	195803	2.54E-71	0.86
28842	199082	199517	7.15E-21	0.77
28842	200377	201081	1.25E-42	0.8
28842	217414	217736	1.02E-25	0.9
28842	223451	224556	7.31E-74	0.9
28842	237484	237981	5.72E-58	0.92
28842	238187	238444	3.45E-42	0.94
28842	256328	256819	1.62E-11	0.77
28842	257456	257720	7.07E-24	0.9
28842	258054	258592	1.22E-57	0.78
28842	267690	268124	1.33E-08	0.81
28842	306761	309886	2.90E-93	0.71
28842	310186	310435	4.79E-25	0.79
28842	310670	311263	3.89E-42	0.91
28842	311874	312281	3.99E-19	0.85
28842	312756	314585	3.05E-145	0.88
28842	315153	316245	1.67E-33	0.82
28842	317240	317836	4.65E-43	0.87
28842	320673	321183	9.09E-16	0.79
28842	323514	323846	2.73E-19	0.82
28842	326042	326827	3.35E-35	0.67
28842	329638	331311	2.09E-90	0.87
28842	333943	334432	6.79E-11	0.78
28842	338350	338572	1.11E-14	0.65
28842	393172	393466	5.52E-10	0.75
28842	394644	395045	3.06E-11	0.78
28842	394719	395440	2.36E-21	0.78
28842	426714	427144	8.04E-10	0.81
28842	433563	433965	4.15E-22	0.9
28842	440315	441495	4.52E-78	0.86
28842	445594	446531	1.50E-47	0.81
28842	449343	450066	3.66E-19	0.76
28842	456106	456644	6.16E-04	0.87
28842	460691	460934	2.09E-08	0.69
28842	479270	479510	6.73E-17	0.96
28842	493118	493556	1.24E-29	0.73
28842	503740	504733	5.23E-14	0.87
28842	516706	517188	4.57E-18	0.79

28842	526518	527000	3.57E-32	0.72
28842	533860	534317	8.73E-32	0.88
28842	536029	536313	5.43E-23	0.85
28842	536675	537083	4.27E-27	0.84
28842	537447	538016	1.11E-50	0.93
28842	538279	538626	1.69E-17	0.74
28842	542534	543173	1.68E-52	0.89
28842	544337	545506	3.55E-43	0.83
28842	549964	550346	7.68E-18	0.89
28856	70262	70608	4.29E-16	0.89
28859	82237	83838	2.43E-98	0.87
28859	105711	105986	1.77E-39	0.97
28859	137059	137354	7.18E-17	0.74
28863	19960	20226	7.92E-37	0.97
28863	21493	21994	1.59E-22	0.87
28863	49487	49791	7.99E-11	0.73
28863	62220	62765	6.13E-63	0.9
28863	64990	65482	5.82E-58	0.91
28863	70692	71324	5.66E-83	0.93
28863	80554	82733	6.27E-180	0.8
28865	8769	9154	4.28E-16	0.74
28872	139	1215	3.14E-62	0.87
28872	27344	27732	5.98E-14	0.84
28872	54927	55591	8.61E-27	0.83
28872	55984	56626	8.12E-21	0.81
28872	73401	74310	2.60E-46	0.83
28872	74757	75607	1.45E-46	0.67
28872	100624	102178	4.00E-144	0.89
28872	102627	102914	2.04E-27	0.79
28872	103544	104382	8.32E-42	0.69
28873	30121	30546	9.01E-07	0.85
28882	6029	6510	5.32E-06	0.87
28882	12225	12484	3.35E-04	0.85
28883	25539	25983	9.77E-15	0.83
28883	41744	42042	8.33E-14	0.88
28883	67932	68322	2.16E-14	0.88
28883	72372	73264	6.13E-47	0.84
28883	74389	74668	2.46E-19	0.84
28883	81142	82535	6.86E-90	0.65
28883	103366	103606	2.04E-29	0.9
28883	124833	125113	3.39E-11	0.87
28883	140222	140671	1.23E-21	0.74
28883	144049	144438	6.01E-20	0.88
28883	145626	145872	7.99E-09	0.77
28883	147142	147634	2.55E-34	0.77
28883	171148	171723	6.07E-45	0.73
28883	211115	211409	5.70E-18	0.83
28883	216229	217184	5.80E-28	0.77
28883	220336	221141	6.33E-30	0.64
28883	225425	229224	4.9406565I	0.89
28884	46387	46648	9.61E-03	0.71
28884	60736	61115	1.30E-24	0.94
28884	80744	80956	3.96E-09	0.78

28884	99017	99430	2.44E-04	0.9
28884	105247	105583	1.36E-13	0.83
28884	121070	121687	2.06E-11	0.85
28884	124701	124902	4.72E-13	0.88
28884	127109	127387	5.78E-15	0.99
28884	130002	130369	7.37E-09	0.82
28885	6503	6708	2.34E-14	1
28885	43254	43751	3.63E-22	0.61
28885	45803	46109	1.21E-07	0.82
28887	4829	5185	1.16E-03	0.83
28887	7181	7452	2.44E-09	0.82
28887	7743	8027	5.18E-07	0.91
28887	14037	14264	1.89E-08	0.81
28890	801	1028	1.25E-04	1
28890	4772	5046	6.56E-04	0.67
28896	11610	11973	2.88E-07	0.91
28898	6126	6326	3.48E-07	0.97
28899	573	792	5.66E-08	0.85
28908	9389	10148	6.13E-06	0.9
28909	1757	2073	7.94E-09	0.87
28909	18524	18934	5.45E-20	0.74
28909	20277	20703	3.06E-11	0.79
28909	51921	52200	1.03E-11	0.73
28909	53553	54062	1.29E-14	0.85
28909	54425	54753	1.23E-25	0.83
28909	55021	55815	7.47E-31	0.6
28909	57201	57465	3.20E-08	0.82
28909	57222	57522	6.47E-08	0.81
28909	60956	61976	1.87E-55	0.87
28923	17595	18006	1.91E-15	0.73
28929	36416	36640	3.71E-17	0.93
28934	27125	27580	4.40E-25	0.89
28934	42438	42701	6.80E-22	0.77
28947	715	1071	1.56E-08	0.7
28947	6335	6683	1.99E-38	0.93
28952	10042	10519	1.74E-47	0.96
28952	27004	27594	1.70E-18	0.72
28957	1370	1751	1.96E-04	0.87
28957	15534	15872	1.72E-05	0.9
28962	26103	26424	2.95E-07	0.81
28962	30051	30255	2.43E-16	0.77
28962	34570	34919	8.81E-26	0.9
28962	52379	53323	1.67E-16	0.65
28962	77957	78280	1.17E-13	0.79
28962	87413	87886	3.51E-40	0.93
28962	94565	95703	1.19E-28	0.61
28962	99960	100769	6.66E-45	0.79
28962	105883	106088	1.91E-10	0.66
28966	14360	14883	6.61E-22	0.85
28966	15165	15682	7.81E-25	0.85
28966	30110	30612	5.12E-10	0.78
28966	33412	33671	5.10E-31	0.87
28966	33905	34156	2.42E-25	0.92

28966	34909	35603	7.19E-32	0.94
28966	35857	36794	7.93E-32	0.92
28966	58266	59199	1.76E-11	0.81
28966	64223	64930	6.82E-19	0.75
28966	67937	68480	2.82E-12	0.82
28966	72712	72981	6.72E-08	0.79
28966	77393	77720	1.13E-25	0.83
28966	89492	89744	2.80E-16	0.82
28966	145206	145451	2.85E-27	0.92
28966	146856	147509	1.57E-18	0.77
28966	150309	150900	5.44E-30	0.75
28966	183232	183615	1.11E-14	0.88
28966	187114	187908	9.91E-62	0.98
28966	198428	198892	3.26E-23	0.75
28966	199130	199671	1.39E-18	0.65
28966	209284	209679	4.31E-47	0.94
28966	213337	214090	9.85E-40	0.84
28966	219108	219329	5.83E-17	0.92
28966	221200	221957	2.85E-29	0.82
28966	230352	230868	2.62E-19	0.8
28966	233097	233520	2.41E-26	0.8
28966	241142	241447	1.95E-15	0.69
28978	707	938	3.67E-09	0.76
28978	1936	2637	1.89E-22	0.85
28978	6570	7021	4.66E-40	0.94
28978	8977	9318	9.39E-14	0.81
28978	27322	27562	8.38E-25	0.94
28985	753	1086	3.85E-09	0.97
28986	31091	31350	3.43E-16	0.64
28988	2187	2536	5.93E-33	0.96
28989	941	1254	3.77E-66	0.94
28989	1461	2100	5.00E-42	0.94
29001	8477	9044	2.09E-06	0.82
29001	9528	9931	1.38E-07	0.88
29002	2297	3175	2.18E-36	0.88
29002	17680	17942	5.53E-15	0.87
29002	60326	61114	5.31E-32	0.8
29002	92364	92635	1.65E-32	0.95
29002	101587	102096	1.22E-22	0.76
29003	47282	47760	4.01E-10	0.88
29003	50846	51292	1.51E-35	0.83
29005	2801	3059	5.37E-10	0.8
29005	2817	3062	1.26E-09	0.79
29005	5956	7162	7.69E-108	0.96
29005	22906	23258	7.10E-20	0.79
29005	23569	24211	5.70E-32	0.94
29005	25983	26389	1.49E-43	0.91
29005	29360	29767	2.40E-38	0.95
29005	41156	41538	6.99E-19	0.9
29005	44015	44813	2.47E-24	0.79
29005	54615	55267	3.14E-48	0.95
29005	99183	99663	1.65E-19	0.73
29005	104602	104950	2.52E-44	0.83

29005	105265	105621	6.97E-29	0.86
29005	118209	118505	1.07E-97	0.87
29010	29520	30189	2.62E-27	0.87
29010	41627	42334	8.01E-57	0.82
29010	42691	42898	2.68E-38	0.93
29010	43099	43385	6.76E-50	0.86
29010	44834	45099	1.69E-22	0.86
29010	51134	51739	5.42E-51	0.97
29010	52175	52796	2.72E-55	0.81
29010	58145	58577	3.60E-64	0.94
29010	62654	63137	5.93E-28	0.91
29010	69670	70538	8.18E-28	0.79
29010	108590	108915	4.53E-35	0.88
29010	113578	114183	2.72E-29	0.8
29010	119173	119463	3.96E-19	0.83
29010	119705	120000	1.73E-17	0.88
29016	802	1260	3.48E-05	0.88
29016	5894	6394	9.45E-06	1
29016	7804	8187	1.80E-06	0.95
29016	41625	42144	6.11E-08	1
29020	20290	20619	3.66E-07	0.88
29020	33250	33480	3.03E-03	0.78
29020	34000	34233	1.25E-10	0.8
29020	37839	38165	5.02E-06	0.91
29020	49042	49326	1.76E-07	0.79
29021	1532	1765	1.63E-04	1
29021	2920	3512	1.14E-19	0.82
29021	4762	5188	5.14E-10	0.87
29021	20007	20358	4.95E-06	0.83
29021	36863	37114	2.45E-19	0.92
29035	614	1061	2.19E-16	0.85
29037	43453	43715	2.26E-09	0.91
29037	46933	47328	5.41E-13	0.81
29037	47113	47345	2.62E-12	0.81
29044	87815	88237	2.37E-32	0.77
29048	269	864	7.25E-37	0.95
29049	12704	12980	9.45E-04	0.94
29061	15214	15621	2.53E-06	0.79
29061	15796	16106	1.10E-05	0.86
29063	308	689	3.15E-14	0.95
29063	23051	23266	2.40E-08	0.91
29063	47846	48158	4.47E-09	0.95
29070	31256	31810	5.93E-25	0.62
29075	8880	9773	2.10E-88	0.89
29080	3440	4088	4.17E-32	0.64
29080	17911	18434	2.01E-21	0.86
29080	22374	22730	5.92E-21	0.8
29080	23309	23582	8.27E-21	0.8
29080	24576	25092	7.03E-28	0.78
29080	30124	30495	3.12E-50	0.66
29080	35526	36985	1.02E-69	0.71
29080	37189	37553	3.54E-23	0.77
29083	5698	5900	8.02E-27	0.86

29090	17557	18032	5.82E-33	0.63
29092	2909	3385	2.53E-15	0.77
29092	53917	54508	3.81E-26	0.76
29092	63001	63562	8.42E-22	0.69
29092	70194	70423	2.08E-51	0.91
29092	107852	108474	2.97E-31	0.89
29092	110174	110459	1.39E-19	0.88
29092	110660	111827	2.11E-47	0.85
29092	114406	115133	1.72E-39	0.81
29092	121673	122556	3.27E-41	0.83
29092	128675	129287	4.04E-27	0.67
29092	241208	241680	4.75E-78	0.86
29093	37913	38287	5.24E-17	0.94
29093	53036	54396	1.14E-60	0.67
29093	55784	55993	1.67E-22	0.65
29093	60287	60955	3.16E-69	0.94
29093	67370	68097	6.72E-56	0.81
29093	71568	71769	3.76E-15	0.82
29093	72020	72442	9.80E-18	0.82
29094	1101	1754	9.72E-22	0.65
29105	16909	17221	1.06E-24	0.87
29109	1089	1375	5.22E-09	0.68
29112	942	1504	1.50E-12	0.94
29112	2047	2420	4.02E-18	0.94
29112	2653	3190	3.80E-09	0.88
29112	3918	4912	2.67E-61	0.96
29116	20324	20620	2.09E-19	0.88
29116	31175	31600	2.68E-06	0.96
29118	5107	5715	3.69E-25	0.73
29118	10662	11628	1.10E-37	0.76
29118	13263	13532	3.88E-14	0.79
29118	19779	20299	1.97E-33	0.79
29118	20655	20878	3.51E-37	0.93
29118	25512	25891	6.59E-27	0.82
29118	27861	28693	5.33E-47	0.93
29122	5289	5855	1.57E-45	0.85
29130	3174	3576	2.96E-10	0.72
29154	17907	18602	3.36E-37	0.78
29154	21712	22019	1.77E-18	0.83
29154	22040	22924	1.96E-21	0.78
29154	47678	48379	1.60E-61	0.86
29154	63718	63977	7.07E-13	0.85
29154	68049	68658	8.00E-23	0.79
29154	70807	71693	3.92E-58	0.74
29155	6289	6662	1.04E-10	0.74
29157	8043	8501	1.23E-20	0.91
29158	123	555	2.83E-15	0.66
29158	26087	27063	1.63E-24	0.76
29158	30939	31308	5.63E-20	0.79
29158	32966	33571	1.14E-41	0.94
29158	43542	44778	4.55E-96	0.87
29158	45563	45875	2.35E-21	0.62
29158	74288	74681	2.11E-23	0.68

29158	77572	78326	6.79E-89	0.87
29159	31686	31900	1.17E-03	1
29159	56208	56478	3.65E-10	0.96
29165	3375	4278	1.77E-39	0.63
29165	5118	5353	7.88E-18	0.83
29165	10166	10516	1.10E-12	0.8
29168	35238	35533	4.77E-15	0.8
29168	69116	69345	4.17E-15	0.82
29168	81987	82406	3.59E-20	0.87
29168	109000	110084	1.00E-40	0.83
29168	135857	136344	6.63E-14	0.77
29168	150203	150949	1.26E-63	0.92
29169	110	659	2.92E-12	0.8
29169	17749	18595	2.91E-44	0.78
29171	4938	5770	9.42E-40	0.96
29171	6095	6408	1.07E-32	0.97
29171	9872	11820	9.76E-243	0.94
29171	11679	12314	3.38E-14	0.91
29171	17253	17677	5.97E-31	0.96
29171	17888	18433	8.40E-60	0.93
29171	34965	35231	2.20E-26	0.93
29171	39327	39742	1.15E-49	0.98
29171	40529	40858	3.60E-31	0.94
29171	51980	52878	2.94E-45	0.94
29171	68273	69111	8.88E-31	0.82
29171	95630	95988	5.88E-21	0.65
29171	111844	113276	4.93E-80	0.93
29171	151370	152506	9.91E-76	0.83
29171	152733	153044	5.04E-33	0.87
29171	153350	153649	6.87E-32	0.92
29171	155844	156044	2.49E-41	0.88
29171	219498	219877	3.65E-28	0.91
29171	232024	232606	9.65E-32	0.97
29171	237068	238157	7.88E-23	0.65
29171	238531	239165	2.20E-31	0.93
29171	243639	244239	1.10E-48	0.95
29172	29747	30086	1.17E-20	0.82
29172	30546	30909	2.28E-23	0.79
29172	36473	37230	2.19E-16	0.75
29172	48402	48953	2.01E-40	0.92
29172	52802	54182	4.82E-133	0.87
29172	64445	65362	6.20E-57	0.76
29172	66161	66833	2.09E-78	0.93
29172	68911	69189	1.90E-23	0.76
29176	109	416	1.13E-07	0.81
29176	15757	16189	4.93E-23	0.84
29176	17736	18017	5.37E-29	0.78
29176	34751	35042	2.68E-77	0.83
29176	93963	95439	1.10E-84	0.96
29176	95691	96533	7.76E-76	0.84
29182	3100	3319	5.25E-12	0.85
29186	1348	1575	1.31E-04	0.92
29188	1141	1399	4.46E-19	0.78

29188	11686	12128	4.14E-22	0.88
29191	6910	8308	1.68E-64	0.87
29191	8796	9198	3.43E-08	0.7
29191	11266	11580	1.30E-39	0.99
29191	15435	15790	1.24E-33	0.94
29195	1340	1670	2.50E-42	0.89
29195	11300	11844	2.64E-14	0.71
29195	14126	14650	2.30E-37	0.84
29195	26316	27142	9.45E-31	0.8
29195	26430	27484	3.32E-34	0.79
29200	8684	9443	2.60E-31	0.65
29200	44219	44802	1.46E-39	0.9
29200	45287	46077	6.85E-37	0.74
29200	67759	68193	5.51E-29	0.9
29200	69003	69728	1.58E-100	0.9
29206	9207	9585	4.07E-74	0.96
29206	9789	10071	4.83E-26	0.81
29206	12182	12538	2.81E-20	0.94
29206	13632	14410	2.07E-27	0.88
29206	13909	14938	1.05E-36	0.83
29206	28171	28662	7.24E-29	0.93
29206	34707	35033	9.65E-22	0.8
29206	38250	38695	2.75E-17	0.66
29206	45439	45927	2.98E-14	0.93
29206	47573	48076	2.64E-11	0.83
29206	48962	49347	4.57E-84	0.91
29206	55785	56021	3.83E-30	0.98
29206	57051	57514	3.45E-20	0.89
29206	87160	87638	1.89E-20	0.68
29206	87911	88453	1.42E-13	0.72
29206	92945	93269	3.61E-13	0.82
29206	102903	103230	4.73E-15	0.86
29212	22332	22752	5.87E-37	0.88
29212	34797	35441	2.01E-19	0.89
29212	37976	38405	2.24E-69	0.93
29212	56097	56647	2.91E-11	0.7
29212	65628	66628	1.68E-30	0.66
29212	75330	76511	2.59E-78	0.81
29212	118135	118403	4.21E-21	0.89
29212	130343	131394	1.37E-50	0.86
29215	1588	1828	6.33E-20	0.73
29216	31234	31839	1.23E-31	0.84
29216	44392	45835	6.06E-48	0.64
29216	89300	90016	2.61E-57	0.82
29216	107049	107424	4.56E-19	0.63
29217	6933	7487	3.98E-26	0.72
29217	8333	8920	1.31E-49	0.9
29217	34909	35223	5.98E-29	0.77
29222	889	1286	4.14E-04	0.82
29222	18982	19304	8.22E-32	0.92
29222	24987	25343	3.52E-18	0.63
29222	36583	37518	1.39E-124	0.82
29222	52949	53451	4.55E-14	0.87

29222	59140	59880	2.15E-19	0.82
29222	60639	62208	7.49E-110	0.93
29222	66216	66807	5.32E-41	0.89
29222	67294	67728	6.49E-17	0.83
29222	70736	71201	1.05E-26	0.93
29222	77939	78295	1.99E-17	0.83
29222	98647	99077	3.79E-16	0.69
29222	145225	145756	9.49E-70	0.86
29222	171150	171396	1.68E-27	0.93
29222	198748	198982	2.26E-15	0.83
29222	201864	202183	2.39E-19	0.81
29222	206271	206949	2.19E-47	0.9
29222	214630	214836	9.75E-13	0.74
29222	217632	218120	1.39E-13	0.64
29222	218327	218615	1.39E-11	0.66
29223	4533	5559	1.53E-103	0.74
29223	5879	6414	1.43E-65	0.78
29226	4376	4717	9.04E-25	0.81
29226	24539	25007	8.13E-43	0.82
29233	859	2252	6.00E-86	0.87
29233	6092	6490	3.64E-11	0.63
29235	17197	18128	2.25E-45	0.61
29235	18383	19091	1.84E-47	0.86
29235	31916	33022	5.20E-105	0.89
29235	36596	37344	2.96E-71	0.8
29235	37581	38836	2.21E-124	0.85
29235	39101	39628	2.86E-66	0.96
29235	40130	40484	1.26E-57	0.87
29235	40913	41342	2.00E-21	0.73
29235	45760	46214	1.40E-19	0.81
29235	49578	50482	2.96E-64	0.67
29235	99074	99326	1.07E-04	0.89
29247	10812	11391	4.26E-07	0.71
29247	11701	12088	2.06E-03	0.78
29247	11894	12398	1.18E-05	0.71
29247	12398	12684	6.50E-06	0.77
29250	17641	18460	8.24E-104	0.8
29250	46147	46502	1.98E-27	0.88
29250	77678	78163	1.54E-49	0.9
29252	14420	14926	2.85E-15	0.95
29252	16960	17404	6.30E-09	0.9
29261	8	471	9.26E-10	0.9
29261	3276	3564	7.00E-04	0.9
29261	3543	3905	3.22E-12	0.87
29263	7117	7661	6.55E-29	0.7
29263	7933	8526	2.28E-16	0.68
29263	13878	14516	6.43E-22	0.84
29263	51888	52529	3.44E-23	0.78
29266	8747	9405	5.17E-11	0.85
29269	41155	41864	5.64E-82	0.9
29269	42303	42971	2.11E-39	0.8
29269	64906	65310	2.11E-18	0.84
29269	79628	79891	6.86E-31	0.78

29269	86908	87192	1.01E-15	0.83
29269	105030	109066	2.49E-162	0.76
29272	25389	25816	8.58E-18	0.81
29272	41415	41914	1.55E-25	0.65
29275	1183	1571	1.31E-05	0.79
29277	774	1123	4.71E-62	0.67
29278	18888	19385	1.62E-23	0.8
29278	26695	26983	5.79E-17	0.86
29278	57023	57727	1.36E-37	0.88
29279	4607	5348	5.85E-21	0.71
29279	25495	26015	1.63E-46	0.84
29279	29188	31875	6.73E-64	0.73
29279	33104	33443	3.29E-12	0.85
29279	41459	42104	3.35E-24	0.92
29279	42601	42934	1.07E-26	0.91
29279	53500	53975	9.60E-33	0.88
29279	54297	54655	2.26E-12	0.77
29279	55990	57070	1.91E-21	0.8
29279	57963	58909	3.82E-29	0.82
29279	59415	60043	5.47E-41	0.96
29279	60286	61026	1.06E-19	0.83
29279	61060	61847	1.30E-20	0.81
29279	62569	62974	3.41E-42	0.85
29289	6716	7420	4.77E-34	0.83
29289	9951	10195	1.06E-14	0.75
29289	13038	13487	6.38E-14	0.72
29290	9022	9453	4.89E-36	0.97
29290	9678	10104	3.96E-78	0.92
29290	10985	11654	5.05E-49	0.91
29290	41334	41661	5.58E-08	0.79
29295	13430	14444	3.44E-31	0.93
29300	2983	3969	2.81E-34	0.8
29300	8751	9343	1.21E-22	0.89
29304	85208	85505	9.30E-07	0.89
29304	100186	100614	1.50E-09	0.93
29308	22997	23872	8.68E-41	0.7
29308	33480	34800	1.70E-35	0.78
29308	44994	46113	1.00E-46	0.82
29308	46570	47351	1.39E-24	0.78
29308	53761	54382	6.63E-26	0.81
29308	69284	69814	1.15E-24	0.69
29308	70103	70882	2.80E-40	0.89
29308	77047	77575	1.46E-24	0.91
29308	77908	78430	7.24E-49	0.84
29308	90410	90779	1.06E-87	0.94
29312	3758	4302	6.52E-07	1
29325	1336	1917	5.04E-19	0.85
29327	14722	15042	1.41E-08	0.87
29333	6750	8106	7.58E-66	0.85
29333	8670	9172	1.24E-47	0.88
29333	26452	26755	6.47E-10	0.83
29333	72311	72520	5.80E-07	0.92
29333	75846	77480	3.97E-65	0.79

29333	78533	79215	7.81E-34	0.86
29333	82259	82652	2.52E-24	0.95
29333	82993	83471	8.76E-20	0.82
29333	84478	85360	1.10E-39	0.86
29333	87109	87628	4.66E-27	0.81
29333	108817	109023	1.04E-15	0.74
29333	116244	116730	6.79E-31	0.92
29333	117214	118030	1.34E-60	0.87
29333	118496	118810	7.23E-64	0.94
29333	131655	132022	2.96E-15	0.83
29333	132262	132967	8.54E-24	0.88
29333	135953	136179	2.93E-19	0.88
29333	139247	139898	4.03E-31	0.9
29333	170952	171197	2.37E-44	0.91
29333	190012	190513	4.02E-06	0.74
29333	199097	199494	2.95E-82	0.86
29333	225367	228291	2.27E-152	0.73
29333	243886	244320	8.96E-20	0.84
29333	270578	270884	2.13E-13	0.83
29333	270652	270909	2.25E-13	0.83
29333	273578	274055	3.67E-25	0.85
29333	286666	286992	4.72E-23	0.8
29333	305340	305730	4.91E-13	0.66
29333	349549	349957	5.44E-56	0.85
29333	350591	351065	3.63E-34	0.82
29333	351568	351967	4.09E-18	0.9
29333	360573	361489	8.98E-32	0.79
29333	382861	383671	6.73E-34	0.85
29333	391087	391762	4.65E-72	0.91
29333	398847	399227	6.48E-25	0.88
29333	406430	407050	5.39E-52	0.83
29333	412142	412900	1.42E-27	0.71
29333	414314	415013	5.47E-06	0.77
29333	436591	437162	1.57E-29	0.84
29333	444557	444844	1.57E-13	0.71
29333	454724	455150	1.32E-16	0.66
29333	462672	462956	2.42E-11	0.79
29333	468317	468959	2.31E-35	0.77
29333	469225	469548	7.57E-23	0.61
29333	476122	476327	1.03E-06	0.82
29333	499574	500260	4.46E-35	0.84
29333	508716	509324	1.20E-54	0.83
29333	511932	512453	7.23E-38	0.92
29333	516467	518321	4.82E-82	0.89
29333	520916	521134	3.28E-06	0.88
29337	9231	10077	5.66E-44	0.73
29337	11487	12554	1.82E-139	0.85
29337	66737	67745	6.11E-62	0.72
29337	71440	71991	4.59E-19	0.83
29337	74077	74435	7.51E-30	0.95
29337	76521	76867	4.56E-23	0.81
29337	78606	79487	4.07E-53	0.87
29337	86470	86807	2.24E-31	0.83

29338	10531	10765	2.51E-05	0.78
29338	26804	27075	1.77E-04	0.79
29338	30477	30793	8.67E-11	0.92
29338	39012	39524	2.45E-05	0.81
29338	41632	41915	7.36E-07	0.88
29338	52941	53546	3.04E-07	0.84
29338	58167	58853	2.42E-14	0.9
29338	72580	72967	7.20E-21	0.92
29338	85570	86063	8.40E-11	0.79
29338	94672	95240	5.79E-27	0.97
29344	32725	33535	8.71E-40	0.81
29344	36029	36502	4.54E-24	0.87
29344	38064	38331	1.86E-34	0.86
29344	39260	39627	1.97E-17	0.88
29344	41007	41496	2.00E-33	0.65
29344	44024	44337	1.52E-14	0.79
29344	50764	51071	6.76E-08	0.86
29344	51490	51881	9.05E-50	0.94
29344	52179	53386	2.62E-97	0.94
29344	55781	57112	7.60E-32	0.78
29346	15245	15701	1.62E-21	0.61
29346	17658	18178	1.53E-48	0.81
29346	18388	18862	2.48E-16	0.8
29346	19395	20188	6.34E-39	0.9
29348	3033	3536	1.91E-05	0.89
29358	5991	7089	1.32E-46	0.91
29358	7359	7953	3.37E-33	0.89
29358	14577	14890	1.22E-09	0.96
29358	20686	21016	9.89E-51	0.91
29358	22898	23248	3.12E-36	0.74
29358	23755	23997	1.00E-25	0.92
29361	2266	2968	4.11E-40	0.94
29361	4815	5256	2.54E-21	0.93
29373	3190	3392	5.93E-17	0.92
29373	3896	4237	1.27E-23	0.9
29376	22099	22407	2.32E-07	0.97
29376	37623	37888	9.41E-04	0.84
29376	41483	41684	1.64E-07	0.97
29381	46307	46937	6.56E-09	0.79
29382	6024	6265	1.88E-05	0.74
29382	8490	9137	2.61E-08	0.72
29382	33157	33637	1.37E-27	0.84
29382	39505	39812	7.73E-09	1
29405	13016	14979	4.25E-82	0.78
29405	17413	17908	1.74E-45	0.77
29405	25750	26199	1.42E-13	0.61
29405	26452	26837	3.13E-11	0.69
29405	27431	28530	1.74E-77	0.9
29405	28758	29262	8.58E-15	0.78
29405	29493	29904	6.32E-17	0.78
29405	30699	31165	5.42E-09	0.8
29405	34017	35179	6.50E-74	0.87
29405	36444	36989	6.31E-17	0.67

29405	39207	39517	5.40E-07	0.8
29405	52716	53167	6.12E-14	0.72
29409	18487	19100	5.13E-44	0.65
29409	21440	21827	3.52E-26	0.77
29409	33464	33917	3.65E-11	0.75
29409	34484	35431	3.12E-43	0.85
29409	63822	64284	6.88E-35	0.96
29409	79145	79853	1.11E-18	0.65
29409	85658	85914	2.41E-15	0.84
29409	95481	95687	1.87E-17	0.78
29409	99250	99742	6.50E-32	0.98
29409	171213	171830	1.03E-44	0.83
29409	172297	172629	3.55E-30	0.73
29409	201973	202501	6.33E-26	0.92
29409	239898	240125	1.08E-03	0.67
29417	18316	18909	1.93E-28	0.92
29417	19117	19397	1.50E-17	0.9
29421	6587	6973	9.64E-06	0.79
29421	12662	13071	1.33E-10	0.93
29421	13202	13453	3.79E-06	0.89
29421	13768	14109	6.59E-07	0.96
29428	5021	5790	1.14E-46	0.89
29428	7813	8381	1.40E-19	0.82
29428	8722	9703	1.64E-41	0.81
29428	59183	60243	2.31E-48	0.86
29428	67209	68008	1.17E-26	0.8
29428	68916	69323	2.42E-12	0.79
29428	69702	70052	1.64E-24	0.9
29428	71541	73848	1.90E-88	0.86
29428	83190	84668	5.45E-55	0.87
29428	104305	104536	5.78E-15	0.85
29428	105625	106566	7.72E-48	0.83
29428	107697	108419	1.65E-21	0.71
29428	110693	111138	4.29E-27	0.92
29428	112300	113030	3.55E-34	0.88
29428	119203	119715	5.97E-13	0.8
29428	120600	120894	1.50E-38	0.95
29428	121304	121902	1.02E-32	0.95
29428	125221	125529	1.38E-38	0.94
29428	155261	155721	9.20E-22	0.79
29428	157890	158332	1.34E-35	0.84
29435	1939	2447	2.78E-04	0.96
29439	50655	51104	1.80E-16	0.84
29439	60635	60887	1.02E-07	0.61
29439	74476	74827	5.07E-11	0.91
29439	86482	87703	5.00E-35	0.8
29447	1149	1477	4.37E-06	0.65
29447	20710	20994	1.70E-08	0.88
29448	13873	14092	2.54E-07	0.85
29451	98	548	7.17E-20	0.82
29451	16142	17318	2.69E-46	0.7
29451	17598	18078	1.27E-12	0.79
29451	20832	21248	5.62E-18	0.93

29453	21353	22110	1.00E-31	0.85
29453	23159	23734	1.82E-22	0.84
29453	30014	30615	5.31E-33	0.88
29453	33910	36921	2.98E-164	0.81
29453	40833	41277	2.57E-13	0.77
29453	41955	42357	2.11E-12	0.74
29453	62346	62994	1.66E-38	0.92
29457	7729	7962	4.83E-05	0.89
29457	14734	15141	3.39E-06	0.83
29458	5569	5982	9.94E-15	0.71
29458	7699	8661	4.13E-31	0.78
29458	8883	9174	2.01E-18	0.68
29458	9378	10518	1.56E-170	0.86
29458	13295	13506	5.91E-15	0.8
29458	13740	14326	1.35E-22	0.91
29458	20801	21096	4.02E-17	0.94
29458	34256	35171	1.63E-19	0.79
29458	35419	35883	7.33E-137	0.91
29458	39141	39494	1.36E-07	0.81
29458	47204	47576	3.33E-20	0.91
29459	41449	42238	6.31E-12	0.91
29459	56236	56607	3.84E-06	0.95
29460	52538	53018	8.08E-08	0.89
29460	60248	60885	4.49E-06	0.74
29460	73669	73904	4.03E-07	0.8
29460	77744	78322	2.58E-05	0.91
29461	11088	11898	1.81E-30	0.78
29461	14599	15293	4.23E-11	0.81
29461	38474	38687	2.45E-10	0.82
29461	45169	45400	4.62E-04	0.78
29461	45246	45683	2.45E-05	0.8
29461	55862	56111	4.28E-05	0.84
29461	58151	58782	4.38E-08	0.87
29461	61674	61976	1.40E-08	0.94
29461	100759	102310	2.19E-39	0.62
29461	102941	103498	1.12E-19	0.73
29461	103757	104061	2.23E-07	0.92
29462	5896	6555	4.09E-32	0.95
29462	47768	48125	7.67E-68	0.92
29462	67272	68450	3.56E-20	0.65
29462	92242	92637	3.74E-23	0.78
29462	94371	95153	4.67E-45	0.86
29462	123427	123655	1.60E-13	0.83
29462	129759	129994	3.73E-07	0.78
29462	146872	147265	7.29E-54	0.9
29462	156294	156625	3.68E-27	0.93
29462	158141	158754	1.21E-75	0.88
29462	159049	160246	7.16E-28	0.84
29462	164289	164580	2.88E-25	0.86
29462	197360	197604	1.54E-15	0.9
29462	198286	198537	2.22E-22	0.94
29462	199942	200412	7.28E-24	0.87
29462	207916	208729	3.24E-28	0.89

29462	209537	210147	1.76E-47	0.93
29462	210655	211096	5.24E-19	0.8
29462	211446	212008	1.34E-26	0.88
29462	212610	212913	5.03E-12	0.91
29462	235946	236418	1.63E-23	0.86
29462	237482	238000	1.00E-16	0.71
29462	240874	241615	1.98E-47	0.96
29462	242054	242634	4.07E-58	0.86
29462	262309	263029	1.03E-22	0.85
29462	287078	287499	1.03E-16	0.79
29462	287167	287501	5.20E-15	0.78
29462	294264	294646	1.88E-26	0.8
29467	26062	26818	5.35E-26	0.97
29469	3416	4028	2.38E-13	0.74
29469	10883	11700	1.55E-72	0.91
29469	12222	12702	1.63E-37	0.87
29469	25016	25552	1.49E-82	0.9
29472	4104	4396	7.12E-10	0.8
29472	9385	9756	3.11E-04	0.84
29472	10916	11231	1.29E-07	0.82
29472	14762	14976	2.75E-09	0.87
29472	15146	15418	4.94E-09	0.85
29472	18449	18682	3.33E-06	0.83
29472	18491	18701	2.66E-05	0.76
29475	4608	4954	1.77E-43	0.96
29475	6316	7319	1.17E-39	0.83
29475	30145	30793	1.49E-32	0.86
29475	31717	32622	4.40E-32	0.69
29475	34633	35279	2.69E-43	0.88
29475	37257	38070	4.36E-49	0.9
29475	38572	39754	1.44E-48	0.88
29475	42986	43336	3.54E-35	0.79
29475	48882	49137	8.31E-20	0.9
29475	51243	52375	2.10E-76	0.78
29475	61052	61977	3.36E-73	0.84
29475	62178	63387	6.04E-54	0.69
29475	65761	66529	1.25E-23	0.66
29475	66730	67255	1.88E-14	0.74
29475	67618	68140	2.83E-32	0.86
29475	72505	72836	3.11E-10	0.67
29475	73328	73906	3.65E-14	0.76
29475	84975	85475	4.69E-20	0.67
29476	13711	13981	2.53E-13	0.81
29476	15160	15532	1.74E-05	0.95
29476	26472	26719	1.14E-06	0.8
29476	32512	32853	5.99E-05	0.84
29479	36622	36993	1.08E-10	0.67
29480	13023	13905	1.25E-11	0.9
29481	17923	18242	1.11E-07	0.81
29482	12950	13399	2.07E-36	0.9
29482	30827	31279	6.50E-29	0.82
29482	36674	37028	2.39E-13	0.84
29482	37332	38216	3.88E-32	0.8

29482	38454	38830	1.03E-10	0.71
29482	57106	57696	1.27E-30	0.77
29482	64090	64374	1.44E-26	0.87
29482	73264	73646	3.45E-49	0.84
29482	78857	79207	3.41E-10	0.62
29482	79911	80126	3.25E-11	0.82
29482	80728	81127	1.22E-21	0.74
29485	3331	3583	1.40E-76	0.81
29485	3857	4195	1.10E-35	0.87
29485	5043	6142	1.19E-72	0.86
29485	6407	7104	2.91E-17	0.93
29485	56800	57204	1.97E-23	0.92
29485	57682	58326	3.26E-62	0.95
29485	65367	65850	4.68E-53	0.93
29485	116160	116497	5.83E-04	1
29486	11108	11469	3.92E-04	0.86
29488	17935	18270	1.73E-05	0.97
29488	23268	23857	3.03E-16	0.87
29488	25098	25371	3.69E-07	0.88
29488	25545	26060	4.91E-15	0.88
29488	89098	89796	1.78E-37	0.7
29489	5475	6254	9.95E-32	0.78
29489	8220	9128	1.08E-62	0.88
29489	18731	19318	3.39E-27	0.8
29489	27415	27825	4.58E-25	0.78
29489	28502	28800	6.29E-18	0.86
29489	71750	71978	4.87E-28	0.88
29491	18811	20672	2.09E-67	0.74
29491	20930	21563	2.88E-27	0.85
29496	4132	4361	3.74E-13	0.68
29496	7490	7823	5.18E-28	0.85
29496	56637	56917	1.41E-08	0.64
29496	80447	80944	2.20E-25	0.67
29496	92478	93099	1.03E-37	0.93
29496	93587	93854	6.34E-23	0.93
29496	94060	94844	2.41E-29	0.96
29497	10457	10767	6.19E-10	0.81
29497	126547	126795	1.31E-21	0.9
29497	141719	142080	4.72E-08	0.91
29497	176156	176369	1.34E-06	0.79
29497	202109	202467	4.01E-26	0.69
29501	5828	6067	2.45E-08	0.83
29504	11188	11681	2.50E-13	0.81
29504	11778	11985	1.84E-16	0.83
29505	3556	3825	7.65E-05	0.93
29506	3776	4664	4.29E-19	0.62
29506	15117	15904	3.24E-40	0.67
29506	50080	50543	1.05E-24	0.77
29506	64484	64785	1.37E-24	0.92
29506	70184	70873	5.33E-29	0.85
29506	79196	80026	7.00E-34	0.82
29506	89800	90174	6.04E-03	0.82
29507	2839	3393	4.31E-30	0.93

29507	3695	4100	4.44E-18	0.88
29508	3489	3711	1.25E-07	0.98
29508	5014	5266	7.71E-15	0.87
29508	9532	9737	6.71E-06	0.96
29508	9671	9899	6.43E-10	0.99
29510	3378	3628	6.06E-07	1
29512	3152	3438	3.73E-04	0.91
29512	14378	14726	2.41E-13	0.95
29513	7971	8397	8.14E-04	0.91
29517	19981	20202	4.43E-13	0.9
29518	10001	10809	8.80E-09	0.65
29520	37099	37491	4.57E-08	0.66
29520	39204	39554	3.20E-12	0.71
29520	39793	40202	5.08E-14	0.66
29520	63245	63660	1.68E-13	0.72
29520	64175	64516	1.67E-15	0.82
29524	2546	3572	3.02E-23	0.97
29528	32561	32778	1.12E-06	0.71
29528	34057	34360	3.08E-06	0.82
29531	38384	38853	1.06E-06	0.88
29531	40886	41350	6.30E-06	0.94
29533	5271	5574	1.85E-04	0.79
29534	9770	10355	2.11E-09	0.89
29542	26753	27355	6.08E-07	0.87
29542	33640	33905	1.76E-05	0.83
29544	22079	22501	2.97E-04	0.93
29544	36341	37396	2.82E-22	0.78
29544	52090	52719	1.06E-10	0.94
29544	54817	55122	7.22E-07	0.92
29544	58446	58678	6.82E-03	0.75
29544	59236	59532	1.02E-13	0.93
29544	77294	77664	1.29E-04	0.93
29544	79440	79879	1.12E-15	0.62
29544	81114	81740	4.77E-16	0.82
29544	82209	82493	1.56E-04	0.89
29547	14765	15449	2.18E-09	0.8
29547	18532	18737	5.52E-18	0.92
29547	21993	22396	2.67E-05	0.9
29548	2493	3209	5.45E-33	0.93
29550	20085	20449	2.84E-04	1
29551	2292	2610	3.00E-05	0.84
29551	11090	11432	1.13E-07	0.94
29556	11483	11739	4.01E-07	0.84
29557	18873	19075	3.63E-16	0.82
29557	23387	23659	9.68E-11	0.83
29557	23399	23813	9.69E-11	0.71
29557	31189	31459	4.43E-12	0.84
29557	33087	33330	8.31E-08	0.84
29560	1701	1935	6.67E-08	0.77
29561	19054	19332	8.87E-07	0.94
29565	1337	1606	1.00E-23	0.7
29568	44715	44978	7.02E-13	0.87
29568	48155	49132	1.33E-32	0.86

29568	65182	65638	2.92E-27	0.79
29569	10508	12007	1.70E-70	0.89
29569	21556	22349	5.74E-09	0.62
29569	23822	24608	1.61E-22	0.69
29569	30639	30887	2.11E-18	0.87
29569	32315	32867	1.30E-69	0.91
29569	33173	33724	7.35E-26	0.84
29569	39899	40476	2.05E-23	0.76
29569	41274	42166	5.66E-53	0.83
29569	42870	44268	8.47E-61	0.79
29569	46154	47051	4.41E-72	0.88
29569	63119	63512	6.17E-14	0.77
29576	15995	16202	2.67E-13	0.84
29576	34601	35307	5.98E-53	0.93
29576	42682	42980	2.63E-28	0.72
29576	47342	47674	4.28E-23	0.88
29576	53891	54238	2.49E-20	0.78
29576	56420	56804	5.86E-27	0.89
29576	77665	78002	7.27E-17	0.86
29576	87889	88430	4.86E-32	0.91
29576	90977	91369	4.94E-11	0.9
29576	93657	95107	6.42E-116	0.86
29576	102680	102968	1.29E-08	0.87
29576	111012	111454	1.15E-06	0.92
29577	4168	4446	3.85E-09	0.62
29577	9600	9903	3.78E-55	0.9
29577	10740	12128	2.05E-82	0.9
29577	12512	13839	1.09E-45	0.87
29577	14147	14423	1.01E-14	0.78
29577	17206	17519	3.66E-15	0.77
29577	18712	19180	8.04E-37	0.8
29577	20706	20985	1.26E-16	0.77
29577	22572	22801	2.15E-17	0.84
29577	24523	25160	1.36E-40	0.85
29577	27541	28193	5.59E-38	0.72
29577	45326	45690	9.48E-12	0.8
29577	50956	51687	1.13E-51	0.87
29577	52419	52963	2.65E-28	0.94
29577	56495	56835	5.26E-25	0.89
29577	61570	62553	3.27E-35	0.94
29577	68952	69356	4.31E-22	0.71
29577	69711	70675	5.02E-61	0.87
29577	79075	79349	2.20E-24	0.82
29577	79744	80026	4.46E-13	0.93
29577	145322	145811	1.33E-09	0.85
29577	204624	205695	6.86E-51	0.64
29577	226734	227163	4.28E-14	0.79
29578	65554	65970	7.57E-13	0.84
29578	74386	74663	1.09E-11	0.94
29578	74645	75246	7.37E-09	0.89
29578	81575	81785	9.28E-11	0.7
29578	158894	159351	2.76E-63	0.94
29578	168705	168919	4.14E-52	0.97

29578	188099	188369	7.64E-12	0.96
29578	191301	191637	1.24E-57	0.9
29578	193825	194396	2.07E-45	0.89
29578	194709	195047	5.08E-20	0.93
29578	196536	196798	3.39E-43	0.92
29578	205050	205423	4.58E-25	0.89
29578	254830	255245	5.35E-10	0.89
29578	257007	257296	6.86E-12	0.87
29579	7615	8505	2.94E-45	0.84
29579	17364	17826	2.20E-22	0.8
29579	27882	28137	1.43E-08	0.91
29579	37416	37878	8.24E-36	0.88
29579	38212	38529	1.45E-36	0.89
29579	38843	39679	8.14E-55	0.89
29579	43976	44311	9.65E-17	0.84
29579	66851	67389	2.74E-18	0.86
29579	68657	69567	9.85E-57	0.85
29579	69983	70296	3.53E-51	0.86
29579	70712	70969	7.61E-19	0.81
29579	100417	101966	2.74E-39	0.73
29579	125993	126276	4.09E-08	0.97
29580	17221	17501	1.62E-03	0.78
29580	28302	28910	7.84E-48	0.92
29580	32106	32407	1.87E-11	0.9
29580	48156	49763	1.67E-94	0.92
29580	108688	109009	7.18E-06	0.89
29580	114505	114864	2.33E-09	0.86
29580	140469	140683	9.54E-04	0.93
29580	195496	195745	2.34E-06	1
29580	246137	246876	1.14E-39	0.82
29580	264068	264296	2.62E-17	0.85
29581	457	983	1.40E-24	0.75
29581	1434	2562	6.28E-49	0.86
29581	6319	6793	3.44E-24	0.89
29581	7965	8346	1.14E-28	0.98
29581	12483	12949	7.44E-14	0.86
29581	28705	29475	1.55E-28	0.73
29581	29689	30561	2.61E-65	0.96
29581	61752	62478	2.35E-103	0.92
29581	63066	63295	1.33E-13	0.88
29581	90782	91585	7.78E-22	0.68
29581	94437	95066	3.65E-38	0.91
29581	98195	98800	8.55E-24	0.92
29581	106342	106840	8.65E-29	0.86
29581	109577	109811	1.16E-16	0.91
29581	113422	114046	2.65E-15	0.72
29581	114299	114874	4.06E-36	0.74
29581	117615	117884	4.55E-31	0.91
29581	122094	122473	3.48E-20	0.86
29581	124618	125248	1.58E-38	0.94
29581	126940	128294	2.66E-27	0.6
29581	130585	131225	5.28E-99	0.87
29581	134904	137234	2.76E-134	0.93

29581	137467	137847	6.04E-57	0.9
29581	141539	142168	1.23E-15	0.83
29581	142390	143080	1.08E-56	0.91
29581	143906	144168	1.96E-09	0.75
29582	10758	10973	2.85E-30	0.91
29582	11349	11576	8.68E-21	0.88
29582	13140	13457	6.29E-31	0.97
29582	43232	43699	1.48E-29	0.9
29582	113927	115079	1.09E-42	0.81
29582	121529	122013	3.33E-21	0.83
29583	8902	9325	1.16E-17	0.66
29583	13582	14958	9.51E-39	0.76
29583	15188	15472	1.93E-17	0.87
29583	15857	16357	3.86E-41	0.8
29583	16631	16891	1.41E-36	0.96
29583	29672	29903	1.87E-13	0.93
29583	101492	102420	2.82E-14	0.89
29583	114795	115306	1.40E-30	0.96
29583	115706	116154	3.96E-11	0.81
29584	17569	17815	3.01E-06	0.78
29584	24082	24463	2.34E-17	0.74
29584	41325	42051	1.14E-36	0.77
29584	45381	46271	5.11E-27	0.75
29584	53997	54725	3.00E-31	0.84
29584	54041	55016	7.93E-40	0.84
29584	71281	71604	8.86E-30	0.86
29584	93730	94858	5.97E-31	0.75
29585	21986	22902	1.04E-18	0.79
29585	46786	47718	1.14E-69	0.9
29585	64830	65244	9.91E-37	0.92
29585	92391	94935	6.63E-152	0.79
29585	98331	98551	1.74E-08	0.7
29585	103723	104059	3.20E-35	0.91
29585	106038	106545	8.10E-30	0.89
29585	106754	107021	3.08E-25	0.93
29585	107278	107585	1.15E-13	0.87
29585	108027	109662	1.95E-105	0.91
29585	130191	130533	6.25E-13	0.82
29585	138985	139586	9.24E-46	0.95
29585	143450	144038	1.90E-17	0.81
29585	169313	170725	1.29E-48	0.85
29585	189372	190355	4.55E-40	0.76
29585	190672	191727	2.42E-46	0.71
29585	197239	197659	6.51E-29	0.74
29585	199078	200706	1.01E-90	0.75
29585	210370	210912	1.85E-43	0.79
29585	221089	222828	2.25E-74	0.72
29585	223150	224285	1.80E-92	0.88
29585	224489	226664	3.83E-181	0.84
29585	240618	241495	3.18E-43	0.75
29585	249643	249990	1.54E-22	0.92
29585	250713	251993	1.27E-124	0.88
29585	252217	252838	8.87E-67	0.93

29585	253892	256684	7.30E-300	0.95
29585	257298	257522	2.21E-23	0.74
29586	8865	9320	1.89E-05	0.81
29586	13463	14644	1.99E-36	0.75
29586	15147	15588	6.18E-32	0.93
29586	20224	20477	5.67E-06	0.74
29586	28437	29511	1.46E-63	0.74
29586	31593	32249	1.35E-21	0.8
29586	45335	45708	5.20E-13	0.83
29586	77930	78515	2.30E-32	0.66
29586	78739	79798	2.15E-79	0.94
29586	95241	95574	1.94E-72	0.94
29586	114497	114966	9.54E-09	0.83
29586	116003	116228	4.09E-08	0.88
29586	124117	124999	2.05E-13	0.61
29586	138587	139324	8.98E-36	0.61
29586	140833	141050	3.81E-34	0.9
29586	154336	155132	1.16E-30	0.62
29586	186344	186892	1.11E-72	0.94
29586	187156	187762	2.79E-59	0.9
29586	189125	189388	6.73E-23	0.85
29586	190786	191213	1.13E-14	0.83
29586	221705	221950	1.14E-25	0.82
29586	227464	228180	1.33E-44	0.85
29586	228400	228946	4.68E-48	0.95
29586	230617	230894	6.60E-16	0.7
29586	231172	231650	3.12E-16	0.85
29586	233257	233854	3.01E-33	0.72
29586	251037	251311	5.32E-32	0.74
29586	256192	256443	1.15E-06	0.79
29586	259722	259995	3.69E-16	0.9
29587	5138	6232	3.91E-129	0.96
29587	6433	6894	1.52E-19	0.92
29587	7230	7814	5.32E-22	0.91
29587	30971	31577	2.01E-08	0.83
29587	70281	70945	5.36E-16	0.81
29587	71680	72072	1.56E-68	0.96
29587	114177	114520	1.66E-31	0.82
29588	31097	31681	3.09E-08	0.76
29588	37688	38195	3.69E-34	0.9
29588	39424	40266	2.67E-46	0.83
29588	44296	44783	3.57E-38	0.91
29588	72740	73692	1.65E-46	0.91
29588	73996	74284	2.73E-31	0.97
29588	76500	76804	8.94E-17	0.9
29588	77309	78824	3.55E-53	0.84
29588	83431	83740	4.88E-35	0.96
29588	83978	84478	2.21E-43	0.8
29588	94842	95696	5.54E-21	0.85
29588	96233	97260	7.02E-104	0.84
29588	97691	98187	2.23E-120	0.95
29588	98479	99260	4.23E-89	0.86
29588	135248	135679	7.65E-33	0.94

29588	168579	169030	1.88E-26	0.9
29588	170759	171395	1.57E-66	0.93
29588	208024	209129	4.05E-36	0.61
29589	8561	8821	1.35E-13	0.8
29589	43346	43687	6.75E-16	0.77
29589	57639	57995	6.20E-27	0.8
29589	58360	58602	7.07E-15	0.83
29589	61295	61698	5.08E-26	0.91
29589	70913	72884	6.51E-151	0.88
29589	80923	81715	4.11E-44	0.6
29589	81925	82714	7.37E-48	0.82
29589	85997	86354	1.30E-16	0.83
29589	121216	121552	4.00E-43	0.81
29589	121769	122052	6.91E-22	0.7
29589	132933	133605	5.34E-23	0.85
29589	145018	145614	1.36E-41	0.68
29589	154966	157664	1.67E-149	0.69
29589	161889	162235	1.45E-50	0.81
29589	241742	242965	2.96E-52	0.85
29589	243952	244261	7.45E-33	0.95
29589	248550	249082	1.04E-29	0.91
29589	316528	317132	1.40E-43	0.81
29589	319542	320070	3.14E-37	0.9
29589	335939	336332	8.41E-29	0.66
29589	365345	365727	2.48E-15	0.86
29589	376167	376523	5.03E-16	0.87
29589	394500	394783	2.43E-10	0.68
29589	421038	421358	9.59E-19	0.64
29589	440692	441287	7.31E-22	0.84
29589	444163	445046	3.96E-38	0.85
29589	445617	446162	2.71E-27	0.82
29589	448206	449011	4.36E-42	0.9
29589	449298	450134	7.30E-47	0.91
29589	450350	450685	4.11E-15	0.89
29589	451864	452822	2.64E-59	0.81
29589	453075	453285	2.73E-50	0.86
29589	475428	475683	6.77E-11	0.75
29589	490941	492117	3.45E-42	0.79
29589	492718	493162	1.71E-18	0.79
29589	507667	508173	4.03E-28	0.78
29589	513534	514720	1.69E-31	0.7
29589	523639	524422	1.09E-34	0.66
29589	525049	525476	1.49E-33	0.89
29589	525939	526511	1.81E-26	0.91
29590	13447	13894	8.43E-27	0.87
29590	40173	40652	3.26E-29	0.91
29590	75367	75724	2.40E-15	0.91
29590	142415	142733	4.03E-14	0.94
29590	150089	150430	7.27E-10	0.85
29590	153034	153460	1.86E-05	0.81
29590	167456	167708	5.14E-06	0.88
29591	19139	19457	4.73E-08	0.94
29591	27842	28133	1.08E-09	0.75

29591	80118	80445	4.21E-24	0.91
29591	83906	84189	6.01E-49	0.94
29591	88727	88979	1.58E-55	0.81
29591	89244	89891	1.99E-82	0.9
29591	90412	91077	8.16E-60	0.87
29591	91559	92145	1.26E-26	0.88
29591	92440	92807	1.76E-30	0.91
29592	6779	7752	4.38E-44	0.91
29592	8010	8434	1.27E-11	0.94
29592	26223	27754	3.90E-65	0.77
29592	34090	34516	7.10E-46	0.76
29592	39171	39878	4.03E-56	0.8
29593	141333	141727	4.42E-17	0.88
29593	142023	142377	1.87E-24	0.93
29593	142780	143354	3.56E-53	0.93
29593	146071	147679	3.29E-111	0.94
29593	148020	148595	1.38E-31	0.75
29593	207792	208172	4.52E-97	0.83
29593	243455	243776	1.00E-19	0.91
29593	245190	246142	1.09E-39	0.8
29593	247628	249031	6.90E-38	0.62
29594	11395	12432	1.12E-62	0.87
29594	13143	13487	2.25E-28	0.93
29594	31474	31716	1.72E-13	0.89
29594	31692	31911	1.95E-22	0.88
29594	44770	44970	2.50E-14	0.93
29594	54287	54740	7.35E-06	0.67
29594	67479	67858	5.27E-06	0.87
29594	73029	73318	1.41E-05	0.95
29594	120130	120586	6.57E-05	0.88
29594	165356	166018	1.47E-06	0.92
29594	185231	185532	7.09E-05	0.92
29594	209912	210559	2.44E-34	0.91
29594	212497	213110	8.05E-78	0.95
29594	228003	228204	4.51E-08	0.89
29595	38922	40167	6.20E-21	0.73
29595	70776	71196	2.13E-39	0.95
29595	75580	75829	7.78E-14	0.76
29595	76526	77490	1.65E-58	0.86
29595	77830	78539	9.38E-54	0.89
29595	78992	79440	2.39E-33	0.86
29595	80239	80603	1.96E-37	0.95
29595	81123	81794	1.83E-42	0.8
29595	82162	82420	1.58E-32	0.89
29595	84388	84834	1.93E-33	0.85
29595	85782	86648	8.99E-44	0.61
29595	90258	90843	1.26E-90	0.67
29595	92884	93369	1.47E-12	0.9
29595	108885	109760	3.28E-42	0.82
29595	128201	129000	4.28E-60	0.82
29595	131630	132776	6.76E-42	0.8
29595	149296	149652	8.79E-25	0.62
29595	149864	150479	3.50E-45	0.7

29595	162034	162470	2.41E-73	0.87
29595	165899	166251	6.33E-16	0.73
29596	59683	60895	4.66E-68	0.79
29596	74268	74485	1.65E-43	0.79
29596	85111	85484	7.03E-09	0.75
29596	86112	86874	3.43E-19	0.78
29596	87311	87831	1.83E-34	0.86
29596	89189	89481	1.01E-10	0.85
29596	91175	91469	2.05E-19	0.86
29596	92449	92845	6.73E-12	0.64
29596	111977	112937	2.74E-36	0.79
29596	116355	117354	9.41E-39	0.6
29596	118138	118367	4.11E-42	0.81
29596	118676	119323	1.16E-24	0.86
29596	120231	120725	4.57E-20	0.78
29596	120957	121515	8.60E-31	0.81
29596	158705	159168	1.82E-13	0.81
29596	193343	193805	3.75E-16	0.81
29596	197276	197664	2.42E-29	0.8
29596	199298	199647	4.21E-27	0.82
29596	201526	201787	4.02E-15	0.81
29596	212038	212284	1.78E-30	0.99
29596	231653	233044	4.73E-93	0.86
29596	237030	237799	2.50E-65	0.89
29596	239268	239726	4.40E-10	0.8
29596	241202	241742	2.34E-12	0.78
29596	264112	264399	3.85E-56	0.88
29596	265366	265668	3.08E-36	0.9
29596	266388	266641	4.03E-82	0.89
29596	269509	270281	2.75E-33	0.87
29596	271854	273411	5.34E-53	0.63
29596	278906	279518	6.33E-20	0.82
29596	281904	283091	4.10E-68	0.89
29596	284769	285863	4.54E-54	0.81
29596	288069	288638	1.06E-40	0.93
29596	295561	296164	6.73E-23	0.82
29596	296516	296872	4.93E-20	0.92
29596	299041	299254	1.20E-18	0.83
29596	304393	304888	6.10E-18	0.85
29596	310818	311264	1.81E-69	0.81
29597	3520	4247	4.44E-27	0.63
29597	11291	12189	1.80E-39	0.86
29597	12421	13271	1.08E-32	0.64
29597	22801	23668	2.96E-30	0.78
29597	23239	24184	4.65E-27	0.81
29597	26346	26646	1.18E-30	0.9
29597	27444	27971	4.31E-18	0.8
29597	39097	39406	3.93E-19	0.63
29597	77862	78143	3.86E-17	0.85
29597	81746	82739	5.90E-45	0.78
29597	84844	85078	1.52E-32	0.9
29597	85836	86667	6.87E-26	0.76
29597	88811	90430	2.52E-74	0.81

29597	125472	125909	2.56E-24	0.87
29597	132766	133583	1.30E-69	0.88
29597	134441	134958	9.02E-65	0.89
29597	137176	137535	4.65E-70	0.91
29598	8431	9044	2.27E-52	0.84
29598	9469	10421	5.17E-62	0.87
29598	10666	11193	3.60E-48	0.84
29598	38080	38881	4.42E-75	0.91
29598	39098	39453	8.40E-53	0.84
29598	39952	40277	1.10E-29	0.73
29598	40976	41392	1.72E-16	0.75
29598	42016	42367	9.46E-70	0.87
29598	60652	61404	1.38E-37	0.86
29598	103417	103868	4.00E-23	0.77
29598	144982	145792	1.12E-29	0.82
29599	14728	15181	2.54E-27	0.87
29599	44885	45944	3.04E-52	0.85
29599	84942	85329	6.96E-34	0.81
29599	85080	85341	2.90E-26	0.81
29599	85649	86162	2.77E-17	0.81
29600	11924	12780	4.36E-17	0.82
29600	14906	15313	7.69E-08	0.75
29600	25680	25880	1.54E-33	0.92
29600	57670	57995	2.38E-26	0.9
29600	59520	60084	1.06E-19	0.89
29600	82155	82503	2.16E-14	0.82
29600	112986	113328	3.76E-49	0.67
29600	124457	125313	1.18E-65	0.96
29600	143692	144338	2.23E-73	0.75
29600	144556	145614	2.31E-190	0.91
29600	152415	152720	3.76E-33	0.96
29600	210317	211050	1.72E-35	0.85
29600	212889	213323	4.70E-22	0.85
29600	219601	220098	3.33E-73	0.95
29600	241785	242211	1.42E-05	0.94
29600	263320	264389	3.97E-50	0.79
29600	265016	266525	6.38E-94	0.76
29600	270554	271215	1.23E-25	0.71
29600	275342	275758	4.12E-33	0.89
29600	276148	276769	1.86E-42	0.95
29600	303154	305039	3.19E-111	0.8
29600	315486	315716	9.15E-17	0.92
29600	337887	338105	3.69E-13	0.94
29600	340596	341240	1.42E-94	0.88
29600	350858	351408	5.03E-16	0.87
29600	358209	358777	9.54E-42	0.92
29600	360184	360856	3.88E-20	0.88
29600	363659	364017	1.10E-13	0.67
29600	420223	420819	2.06E-58	0.97
29600	421082	421405	1.21E-57	0.95
29600	425620	425952	9.67E-35	0.84
29600	447456	447771	4.68E-21	0.87
29600	448143	448677	1.08E-39	0.87

29600	448956	450531	1.27E-53	0.61
29600	479707	480189	2.53E-61	0.94
29600	480624	481661	3.97E-99	0.96
29600	489058	489514	8.08E-85	0.88
29600	496375	496671	5.30E-28	0.87
29600	497285	497876	1.52E-32	0.89
29600	498749	499314	7.24E-60	0.94
29601	16186	16419	2.52E-07	0.73
29601	17442	17815	2.20E-21	0.95
29601	23547	24389	1.24E-28	0.83
29601	78950	79183	1.58E-10	0.86
29601	99623	99887	3.31E-21	0.89
29601	132747	132985	4.38E-30	0.75
29601	136638	137776	3.43E-51	0.94
29601	149071	149728	1.75E-43	0.87
29601	153683	153958	1.57E-19	0.75
29601	167973	168346	6.28E-14	0.82
29601	170071	170900	1.07E-30	0.67
29602	6892	7872	5.64E-31	0.88
29602	8515	8728	4.18E-17	0.89
29602	16067	16451	6.54E-04	0.72
29602	21627	22626	5.77E-24	0.83
29602	59740	61754	1.07E-153	0.91
29602	63635	64368	2.38E-13	0.83
29602	74778	75383	2.34E-18	0.8
29602	95367	95784	1.96E-51	0.72
29602	101074	101633	1.73E-21	0.8
29602	121330	122207	1.55E-41	0.78
29602	126495	127942	2.39E-108	0.94
29602	130464	130726	1.11E-20	0.7
29602	146466	146809	1.36E-12	0.92
29602	154060	154343	2.16E-12	0.72
29602	168977	169368	3.45E-15	0.84
29602	169597	169826	5.18E-35	0.97
29603	20025	20759	5.45E-51	0.9
29603	28384	29308	2.51E-34	0.61
29603	109073	110061	5.87E-66	0.65
29603	115533	115790	5.96E-19	0.71
29603	116226	116610	2.12E-22	0.86
29603	156788	157297	2.59E-38	0.92
29603	177967	178636	1.99E-31	0.67
29604	19799	20084	3.67E-10	0.85
29605	3103	3335	1.50E-05	0.87
29605	10508	11162	3.58E-05	0.94
29605	43157	43712	5.59E-06	0.64
29606	20177	20886	5.89E-30	0.89
29606	21092	21374	3.60E-84	0.93
29606	23025	23267	2.66E-49	0.96
29606	35567	35928	3.66E-12	0.92
29606	43167	43733	2.36E-93	0.94
29606	57721	58672	5.47E-31	0.75
29606	63096	63809	1.10E-33	0.88
29606	66526	67122	3.03E-30	0.68

29606	95464	96319	1.45E-25	0.75
29606	109376	109618	5.18E-40	0.9
29607	25626	25880	2.64E-37	0.97
29607	33149	33713	1.80E-30	0.85
29607	53436	53895	7.24E-24	0.95
29607	92138	92745	1.01E-17	0.69
29607	94653	95510	6.74E-38	0.77
29607	96514	97076	2.36E-41	0.83
29607	105460	105761	8.31E-20	0.78
29607	108701	109018	4.15E-17	0.89
29607	111818	112497	2.51E-15	0.65
29607	115007	115550	3.57E-20	0.89
29607	123805	124452	9.14E-30	0.92
29607	142243	142543	1.10E-12	0.84
29607	142951	143680	1.55E-27	0.89
29608	23379	23731	7.50E-09	0.91
29608	26812	27304	1.58E-43	0.96
29608	30804	31404	9.93E-12	0.77
29608	61098	61674	7.37E-41	0.76
29608	62240	62513	2.99E-47	0.88
29608	87745	88789	4.58E-79	0.85
29608	99250	99523	8.33E-19	0.71
29608	120757	121054	3.49E-35	0.95
29608	122580	124085	7.22E-65	0.84
29608	124327	124706	2.63E-24	0.6
29609	22552	23389	8.36E-38	0.87
29609	25589	27089	5.83E-44	0.85
29609	31332	32661	1.82E-42	0.73
29609	43721	44918	5.27E-39	0.78
29609	50486	51847	4.48E-52	0.79
29609	60826	61114	1.36E-26	0.9
29609	84961	85386	1.78E-45	0.66
29609	90229	90547	8.09E-24	0.77
29609	93214	94367	5.85E-43	0.61
29609	100430	102320	3.93E-91	0.9
29609	104049	104340	2.48E-35	0.96
29609	105718	106008	1.87E-38	0.93
29609	108875	109862	2.03E-45	0.94
29609	131251	131897	7.69E-17	0.74
29609	136557	137766	4.34E-29	0.79
29609	138454	139493	4.12E-93	0.89
29609	144719	145435	5.92E-37	0.86
29609	145692	146080	2.32E-19	0.83
29609	147839	148647	3.24E-21	0.82
29609	148883	149733	4.55E-45	0.9
29609	150053	151229	3.14E-51	0.91
29609	174579	175509	1.24E-39	0.68
29609	188796	190105	9.57E-50	0.65
29609	193308	195278	2.76E-133	0.83
29609	195549	196230	1.29E-38	0.78
29609	196622	196840	1.43E-27	0.91
29609	197084	197392	6.06E-34	0.95
29609	198981	200491	1.24E-46	0.65

29609	209503	209843	1.23E-17	0.9
29609	211952	212258	1.52E-08	0.6
29609	222305	223046	9.56E-39	0.88
29609	241007	241555	1.39E-31	0.82
29609	246175	246950	4.30E-72	0.6
29609	247180	248795	1.92E-130	0.79
29609	249348	250320	4.90E-87	0.76
29609	250913	251223	1.08E-23	0.69
29609	251447	252509	1.67E-169	0.86
29609	252719	253310	1.42E-55	0.88
29609	253698	254460	1.70E-210	0.92
29609	266215	266856	2.52E-39	0.78
29609	268510	268970	2.20E-21	0.91
29609	271909	272140	6.80E-29	0.99
29609	274815	275541	2.64E-22	0.81
29609	276197	276770	9.41E-48	0.89
29609	280852	281135	1.08E-16	0.8
29609	281735	282203	1.46E-29	0.8
29609	283630	284238	1.36E-27	0.78
29610	32547	33035	7.72E-12	0.7
29610	49153	49841	2.81E-51	0.84
29610	51208	51700	3.71E-23	0.92
29610	92234	94093	5.78E-108	0.79
29610	117197	118737	1.72E-57	0.78
29610	126429	127100	1.61E-39	0.79
29610	144140	144460	1.05E-22	0.78
29611	2261	2536	2.75E-16	0.95
29611	4345	4652	2.24E-23	0.86
29611	5819	6025	1.53E-05	0.94
29611	18548	20161	2.96E-118	0.77
29611	22783	23186	5.95E-25	0.93
29611	23478	23990	1.10E-15	0.86
29611	26903	27219	8.74E-29	0.91
29611	27457	27865	9.57E-25	0.85
29611	28337	28966	3.53E-21	0.72
29611	32501	32943	2.11E-22	0.79
29611	45939	47217	1.37E-48	0.84
29611	49989	51240	2.13E-64	0.64
29611	54131	54461	3.26E-12	0.82
29611	66453	67740	4.69E-43	0.74
29611	69073	69608	1.61E-54	0.84
29611	114470	114684	2.29E-28	0.88
29611	120190	120424	5.62E-11	0.78
29612	41380	42614	1.63E-55	0.93
29612	115714	115968	1.45E-12	0.92
29612	147766	148164	9.77E-116	0.96
29612	196803	197807	1.08E-98	0.95
29612	198451	200117	1.06E-113	0.93
29612	211852	212686	9.72E-51	0.89
29612	213028	213278	5.96E-20	0.88
29612	217152	217822	3.99E-27	0.8
29612	219900	221400	1.98E-56	0.86
29612	225518	226579	3.53E-64	0.89

29612	231349	232911	8.12E-77	0.93
29612	234042	235315	2.65E-47	0.82
29612	241563	241915	1.51E-21	0.98
29612	270509	271919	4.24E-51	0.86
29612	274212	274913	8.99E-22	0.83
29612	291973	292527	3.90E-13	0.84
29612	328045	328343	2.03E-11	0.89
29613	43465	43939	3.07E-21	0.83
29613	80361	80829	3.03E-15	0.77
29613	112020	112234	6.67E-04	0.79
29613	138529	139013	8.64E-14	0.61
29613	140526	141315	4.37E-27	0.62
29614	4686	5387	6.04E-20	0.78
29615	6054	6310	3.37E-16	0.94
29615	12376	12800	3.30E-40	0.92
29615	57759	58168	3.13E-42	0.93
29615	60069	60331	1.81E-25	0.89
29615	63520	63769	3.70E-16	0.84
29615	175635	176256	5.99E-40	0.97
29615	176583	176871	5.74E-38	0.94
29615	177879	178426	3.74E-24	0.9
29615	192668	193176	1.20E-30	0.84
29615	228155	230823	2.13E-120	0.88
29615	237428	239070	3.53E-94	0.68
29615	251167	251394	6.66E-26	0.97
29615	251957	252371	2.71E-34	0.84
29615	321302	322199	1.97E-92	0.88
29615	334283	334635	3.66E-47	0.95
29615	373485	373750	4.36E-12	0.79
29615	375287	375960	6.95E-45	0.83
29615	377961	379018	2.99E-42	0.83
29615	381860	382173	6.63E-15	0.83
29615	382488	382861	3.11E-45	0.96
29615	383242	383947	2.86E-62	0.92
29615	384408	385046	4.62E-42	0.9
29615	387493	388373	8.83E-22	0.87
29615	391087	391447	4.97E-11	0.93
29615	391947	392404	2.99E-12	0.86
29615	393809	394201	4.20E-18	0.86
29615	396753	397086	4.92E-22	0.78
29615	456654	457281	8.02E-29	0.84
29615	487066	487711	3.50E-51	0.93
29615	531506	532025	2.28E-42	0.72
29615	532287	532792	1.25E-17	0.78
29615	533916	534850	1.97E-59	0.83
29615	542917	543138	1.21E-12	0.88
29615	545447	545896	9.64E-47	0.94
29615	546147	546798	1.23E-34	0.91
29615	596308	597468	7.45E-68	0.73
29616	21490	21909	1.37E-22	0.6
29616	27421	28097	8.24E-33	0.96
29616	40414	41089	4.61E-23	0.72
29616	41818	42080	1.82E-05	0.8

29616	61520	61947	3.93E-40	0.89
29616	72315	72794	7.19E-53	0.96
29616	83122	83369	3.63E-11	0.83
29616	100520	101282	8.86E-22	0.8
29616	102784	104076	1.70E-81	0.66
29616	109644	110023	4.70E-08	0.78
29616	123966	124379	1.70E-21	0.81
29616	128021	128635	8.41E-25	0.63
29617	248	495	6.00E-11	0.65
29617	3241	3508	7.94E-30	0.94
29617	29064	29612	7.76E-22	0.95
29617	30094	31008	9.48E-49	0.88
29617	31730	34218	5.65E-112	0.87
29617	58414	58713	1.80E-58	0.96
29617	138264	138972	6.72E-20	0.81
29617	164755	164992	3.23E-08	0.82
29617	166779	167159	3.48E-99	0.92
29617	173604	173971	2.02E-40	0.89
29617	176576	177023	1.21E-17	0.94
29618	11422	11734	6.12E-21	0.76
29618	31459	31663	7.33E-10	0.84
29618	80593	80963	1.58E-20	0.67
29618	86378	87363	1.13E-160	0.98
29618	89316	89934	5.27E-20	0.79
29619	33341	33902	2.31E-35	0.86
29619	43135	43373	1.58E-25	0.9
29619	55481	55805	1.58E-31	0.96
29619	62244	62465	1.63E-43	0.92
29619	63163	63792	9.44E-55	0.93
29619	97827	98497	9.78E-11	0.86
29620	48831	49236	1.49E-22	0.97
29620	50588	51122	3.82E-32	0.95
29620	53435	54013	7.40E-52	0.94
29620	54238	54816	2.02E-66	0.91
29620	63921	64275	5.67E-12	0.87
29620	71899	72448	1.66E-31	0.93
29620	78433	78789	2.64E-22	0.92
29620	85168	85873	6.30E-31	0.82
29620	86155	86651	2.68E-46	0.9
29620	91657	92081	2.97E-20	0.79
29620	92563	92918	9.29E-42	0.96
29620	93790	94311	8.48E-17	0.92
29620	96034	96913	6.17E-82	0.93
29620	100741	101081	7.80E-41	0.97
29620	101470	101808	7.94E-28	0.9
29620	106730	107130	5.32E-23	0.94
29620	107479	107951	1.28E-32	0.87
29620	109945	110373	1.87E-12	0.75
29620	112905	113780	8.50E-66	0.95
29620	120588	121147	1.25E-45	0.94
29620	162711	163121	1.74E-14	0.81
29620	174065	174838	2.57E-25	0.9
29620	175435	176542	6.12E-76	0.95

29620	186257	186591	7.60E-25	0.84
29620	188182	188717	1.44E-23	0.73
29620	197848	198310	1.49E-29	0.87
29620	201231	201840	2.89E-10	0.69
29620	223711	224131	9.22E-22	0.82
29620	232970	233608	1.69E-20	0.67
29620	235040	235585	9.54E-13	0.72
29620	245733	246779	2.38E-46	0.87
29621	9948	10797	7.12E-13	0.8
29621	91784	92032	1.92E-05	0.81
29622	111225	112542	2.62E-44	0.85
29622	142015	142415	6.56E-11	0.8
29623	2432	3122	6.20E-53	0.79
29623	13983	14674	6.40E-24	0.91
29623	54623	54915	1.68E-44	0.69
29623	55578	55935	3.28E-87	0.91
29623	58223	58905	1.94E-142	0.91
29623	85021	85538	1.50E-06	0.79
29623	110980	111393	6.98E-12	0.86
29623	124974	125932	2.46E-62	0.79
29623	127823	128206	1.67E-49	0.95
29623	137277	137976	1.09E-21	0.89
29623	176870	177283	6.74E-25	0.8
29623	181327	181795	1.65E-52	0.9
29623	182227	182741	1.87E-96	0.9
29623	183192	183577	5.05E-34	0.94
29623	184630	185570	4.33E-47	0.86
29623	187311	188449	9.90E-92	0.94
29623	194703	195029	9.71E-19	0.84
29623	195355	195957	1.04E-25	0.79
29623	261629	261965	6.55E-37	0.96
29623	281188	281623	7.93E-20	0.95
29623	281892	282258	3.42E-31	0.91
29623	302826	303698	1.95E-39	0.72
29623	303941	304301	2.72E-15	0.73
29623	305026	305337	4.50E-14	0.83
29623	318489	319855	6.90E-106	0.97
29623	320094	321092	5.27E-90	0.96
29623	321333	321823	6.57E-95	0.97
29623	322382	322893	2.32E-32	0.96
29624	121855	122414	1.13E-14	0.84
29624	212812	213167	6.76E-47	0.63
29624	215667	216771	4.56E-76	0.91
29624	217614	218091	1.45E-41	0.93
29624	219229	220694	1.69E-93	0.89
29624	261893	262850	8.96E-85	0.89
29624	264048	264397	2.34E-30	0.92
29624	265189	265535	2.35E-24	0.96
29624	265947	266379	1.90E-37	0.97
29624	266866	267180	2.54E-53	0.93
29624	269239	269675	1.50E-15	0.82
29624	273363	274946	4.09E-42	0.69
29624	278937	279217	1.90E-22	0.95

29624	305358	306274	1.15E-85	0.96
29624	323437	323751	2.18E-12	0.81
29625	13534	14512	2.41E-47	0.67
29625	34258	34691	1.51E-12	0.81
29625	34951	35362	8.06E-15	0.74
29625	35602	35932	1.19E-25	0.7
29625	45560	45856	1.73E-17	0.77
29625	127314	128317	5.02E-62	0.86
29625	148509	149096	1.20E-43	0.93
29625	161867	162174	4.41E-26	0.9
29625	177089	177974	1.07E-10	0.63
29625	184875	185228	9.94E-39	0.97
29625	193180	193906	3.86E-46	0.6
29625	197989	198437	5.54E-30	0.75
29625	198659	199820	2.04E-44	0.72
29625	202343	203235	1.30E-46	0.82
29625	203547	204433	6.94E-67	0.91
29625	211107	212557	6.67E-59	0.85
29625	224958	227890	2.22E-156	0.61
29625	234053	234454	1.52E-13	0.82
29625	239626	240200	5.86E-34	0.86
29625	240780	241813	2.09E-71	0.85
29625	251469	251831	1.15E-24	0.84
29625	255795	256107	5.33E-08	0.72
29626	3256	3817	1.07E-37	0.93
29626	17353	17590	2.44E-23	0.73
29626	25297	25718	2.84E-24	0.83
29626	32375	33817	6.30E-46	0.71
29626	51312	51755	8.09E-24	0.67
29626	57876	60096	4.48E-125	0.94
29626	83205	83580	4.01E-19	0.94
29627	75290	75609	2.43E-30	0.95
29627	75929	76158	6.58E-22	0.88
29627	76779	77062	1.22E-37	0.93
29627	119162	119903	5.21E-34	0.9
29628	10106	10800	1.54E-41	0.93
29628	11084	11348	1.06E-21	0.86
29628	16786	17546	8.09E-33	0.83
29628	18689	19541	5.26E-24	0.8
29628	19767	20018	3.64E-12	0.8
29628	23875	24184	3.56E-22	0.9
29628	24726	25023	2.08E-41	0.89
29628	44232	44898	1.60E-35	0.81
29628	61909	63012	1.52E-48	0.81
29628	73068	73557	4.83E-18	0.78
29628	96757	97237	7.89E-23	0.81
29628	104751	105790	2.86E-56	0.81
29628	106105	106333	3.38E-12	0.69
29628	113104	113677	6.55E-53	0.79
29628	115909	116626	7.08E-47	0.77
29628	119281	121240	4.31E-92	0.81
29628	136780	137190	3.73E-110	0.93
29628	137613	138119	4.18E-37	0.84

29628	139874	140959	1.09E-168	0.91
29628	141384	141848	5.81E-44	0.86
29628	143378	143871	3.99E-24	0.84
29628	160742	161128	8.41E-25	0.79
29628	161889	162138	1.03E-60	0.89
29628	164759	165810	3.43E-60	0.8
29628	167949	168385	1.24E-16	0.79
29628	169327	170411	5.63E-50	0.84
29628	188336	188736	1.07E-37	0.94
29628	204704	205124	2.39E-22	0.66
29628	209488	210095	1.29E-26	0.83
29628	210456	210933	1.12E-48	0.89
29628	214847	215603	1.48E-72	0.91
29628	218314	218699	7.63E-25	0.95
29629	13	411	6.93E-05	0.76
29629	44477	45197	4.85E-47	0.76
29629	46449	47549	4.13E-92	0.82
29629	88122	88598	3.49E-46	0.93
29629	90706	90932	1.10E-18	0.81
29629	93264	94656	2.90E-60	0.75
29629	116381	117290	5.69E-13	0.74
29629	119486	120833	1.14E-94	0.8
29629	139774	140076	9.64E-13	0.61
29629	151221	151899	7.41E-13	0.62
29629	157644	159072	6.77E-97	0.77
29629	162110	162435	1.22E-15	0.79
29629	183368	183588	4.70E-12	0.62
29629	194783	195225	2.49E-20	0.88
29629	197507	197916	2.79E-22	0.77
29629	198360	198686	9.59E-17	0.77
29629	210036	210357	1.71E-17	0.91
29629	215057	215420	1.15E-10	0.71
29629	215667	215904	2.18E-42	0.95
29629	257132	257334	2.94E-15	0.79
29629	285408	285775	1.66E-25	0.84
29629	287811	289124	9.36E-32	0.81
29629	302356	302952	1.30E-39	0.83
29629	309197	309600	4.57E-31	0.93
29629	314660	314961	2.07E-14	0.81
29629	319347	319732	6.52E-19	0.78
29629	334674	335302	1.67E-67	0.88
29629	340678	341381	1.82E-32	0.63
29629	365823	366249	3.04E-23	0.74
29629	382098	382900	1.76E-54	0.97
29629	384086	384637	5.76E-23	0.78
29629	388091	388380	9.52E-10	0.69
29629	420243	420631	5.79E-20	0.88
29629	423768	424923	6.07E-39	0.84
29629	457446	457793	3.91E-17	0.78
29629	460028	460404	9.65E-36	0.85
29629	460760	461417	1.76E-21	0.73
29629	464277	464838	1.04E-40	0.92
29629	465217	465915	6.63E-38	0.82

29629	473349	473962	1.52E-39	0.88
29629	474202	474699	1.45E-32	0.87
29629	476518	477409	6.12E-26	0.8
29629	482383	483347	7.95E-40	0.77
29629	493956	494495	9.51E-28	0.7
29629	496954	498141	3.34E-66	0.86
29629	500659	501092	1.99E-07	0.74
29629	517485	517970	1.84E-07	0.8
29629	532468	532957	7.57E-28	0.76
29629	557290	557776	5.66E-27	0.83
29629	560523	561905	9.79E-42	0.81
29629	564684	564998	3.53E-35	0.89
29629	573838	574595	3.02E-32	0.73
29629	575249	575491	1.23E-23	0.83
29629	578642	579126	1.66E-18	0.78
29629	579444	579946	1.48E-18	0.86
29629	580167	580522	1.72E-31	0.89
29629	601301	601858	4.45E-13	0.75
29629	604112	604316	2.56E-26	0.83
29630	3739	4039	2.09E-07	0.68
29630	21449	22035	2.48E-30	0.61
29630	23516	23904	5.97E-19	0.77
29630	24886	25564	6.27E-16	0.88
29630	37065	37299	1.25E-11	0.82
29630	45030	45726	1.08E-23	0.75
29630	45957	46341	2.72E-39	0.8
29630	48554	50459	3.05E-78	0.8
29630	58740	62253	2.59E-246	0.87
29630	67018	67330	8.65E-17	0.72
29630	67626	68047	2.27E-34	0.81
29630	77813	78099	1.44E-27	0.96
29630	84092	84292	2.56E-10	0.8
29630	107140	107471	1.54E-17	0.82
29630	124521	125171	6.60E-49	0.81
29630	140658	140880	5.77E-21	0.65
29630	141757	142222	1.12E-12	0.93
29630	162346	162768	2.10E-26	0.9
29630	170213	170575	6.68E-20	0.74
29630	184351	185111	3.27E-13	0.71
29630	187109	187476	2.85E-38	0.92
29630	192519	192898	1.21E-27	0.96
29630	196502	197158	5.20E-61	0.94
29630	198028	198461	1.07E-40	0.92
29630	203618	204034	2.31E-89	0.8
29630	208203	208482	6.44E-16	0.78
29630	216104	216771	1.01E-33	0.86
29630	219825	220488	2.65E-50	0.76
29630	224745	225347	7.95E-27	0.84
29630	227731	228020	1.65E-26	0.82
29630	228498	228972	1.44E-42	0.9
29630	232299	233796	6.50E-56	0.84
29630	262238	262994	3.85E-17	0.71
29630	296082	296469	1.55E-12	0.66

29630	296920	297344	4.14E-20	0.66
29630	320008	320466	7.02E-28	0.64
29630	363009	363486	2.85E-29	0.85
29630	367644	368274	1.16E-31	0.79
29631	27611	28252	3.90E-19	0.84
29631	61149	62170	1.43E-93	0.88
29631	62982	63537	9.60E-76	0.84
29631	76863	77335	1.14E-51	0.76
29631	77536	78228	2.33E-15	0.78
29631	78837	79348	3.59E-16	0.75
29631	110294	111187	2.61E-49	0.69
29631	115976	116183	4.03E-24	0.81
29631	142420	143530	5.32E-52	0.81
29631	144778	145884	3.70E-60	0.75
29631	163729	164020	9.94E-12	0.72
29631	170528	170781	8.41E-20	0.79
29631	194124	195511	9.95E-59	0.75
29631	204295	204817	5.78E-13	0.66
29631	252793	253227	2.00E-22	0.6
29631	268992	269738	7.25E-42	0.71
29631	308537	309821	2.62E-35	0.73
29631	313885	314236	7.09E-41	0.85
29631	318597	319061	2.29E-18	0.81
29631	320251	320703	1.25E-29	0.91
29631	332986	333279	1.10E-28	0.74
29631	334948	335464	1.10E-60	0.88
29631	335758	336708	4.88E-57	0.7
29631	346887	347750	2.25E-50	0.93
29631	368985	369242	4.07E-21	0.86
29631	380922	381817	1.62E-24	0.78
29631	382311	383043	1.40E-38	0.87
29631	393178	394122	1.51E-17	0.64
29632	112975	113410	7.78E-78	0.92
29632	116626	117007	2.73E-20	0.94
29633	8661	10341	1.22E-65	0.82
29633	17456	17865	1.65E-27	0.9
29633	32581	33074	2.51E-17	0.79
29633	35869	36469	4.50E-21	0.77
29633	36849	37191	5.70E-27	0.91
29633	39313	40307	2.62E-63	0.83
29633	41079	41332	1.99E-47	0.91
29633	41991	42713	1.22E-47	0.93
29633	43615	44000	1.12E-24	0.93
29633	90521	91001	5.74E-21	0.8
29633	94301	94745	1.21E-22	0.82
29633	95617	96426	2.14E-31	0.73
29633	110569	111284	1.62E-30	0.61
29633	120408	121018	2.52E-24	0.81
29633	124453	124914	1.80E-34	0.88
29633	160314	161639	3.67E-88	0.88
29633	164708	164914	4.97E-14	0.64
29633	198485	199599	2.08E-166	0.94
29633	208566	208789	1.42E-26	0.94

29633	209623	210408	3.16E-64	0.82
29633	217172	217612	4.48E-21	0.79
29633	291060	291781	1.75E-19	0.91
29633	293845	294692	2.27E-19	0.6
29633	296660	297090	8.03E-24	0.75
29633	318476	319164	4.21E-37	0.79
29633	320173	320483	2.22E-19	0.85
29633	321660	321943	1.50E-67	0.94
29633	322714	323319	3.11E-17	0.79
29633	323551	323979	1.44E-18	0.91
29633	333835	334887	1.14E-27	0.78
29633	335099	336591	7.54E-84	0.77
29634	1284	2277	1.32E-55	0.67
29634	4323	4592	1.04E-22	0.64
29634	25416	25957	9.42E-16	0.7
29634	49774	50421	4.74E-71	0.86
29634	50740	51638	3.09E-12	0.88
29634	51933	52996	2.38E-125	0.85
29634	66110	66345	2.81E-24	0.83
29634	66694	67053	1.44E-34	0.85
29634	67302	68154	6.45E-70	0.75
29634	75237	75742	8.24E-46	0.82
29634	85730	86423	4.17E-25	0.78
29634	87083	87459	1.69E-23	0.81
29634	111075	112032	9.74E-77	0.8
29634	113839	114223	2.14E-36	0.86
29634	136567	136909	4.81E-18	0.79
29634	150654	150951	5.18E-12	0.78
29634	157511	157773	1.05E-55	0.92
29634	161441	161747	1.28E-31	0.72
29634	166713	167772	5.77E-49	0.89
29634	180630	182255	1.12E-62	0.8
29634	182546	182978	5.44E-21	0.81
29634	188313	188863	1.85E-33	0.82
29634	193438	193827	2.49E-12	0.81
29634	194927	195751	1.97E-86	0.91
29634	196097	196516	2.33E-31	0.85
29634	219558	219958	3.33E-10	0.83
29634	241602	241938	4.63E-27	0.75
29634	265160	265384	1.37E-09	0.63
29634	269623	269986	1.98E-25	0.81
29634	270644	271432	2.05E-50	0.9
29634	303904	304394	2.27E-07	0.77
29634	324966	325683	5.88E-57	0.93
29634	345232	345901	6.02E-40	0.76
29634	346220	346507	7.96E-30	0.73
29634	356366	356902	6.16E-20	0.81
29634	357398	357623	3.41E-20	0.83
29634	358352	358953	1.10E-19	0.75
29634	360305	361374	4.31E-37	0.62
29634	368487	369039	1.66E-57	0.64
29634	374927	375642	4.53E-09	0.66
29634	395248	395919	1.64E-32	0.65

29634	396130	396559	1.07E-45	0.85
29634	403827	404880	1.26E-64	0.91
29634	411373	411613	9.60E-25	0.87
29634	422323	422709	1.66E-31	0.9
29634	434908	435283	9.68E-41	0.95
29634	435596	435911	5.27E-17	0.87
29634	437986	438667	1.03E-34	0.71
29634	439452	439916	1.10E-20	0.69
29634	440964	441479	1.78E-35	0.7
29634	441944	442401	1.50E-68	0.78
29634	449351	449954	4.38E-54	0.89
29634	451620	451872	1.13E-32	0.92
29634	495306	495667	3.50E-15	0.81
29634	503568	504730	6.84E-38	0.75
29634	544418	544699	3.11E-16	0.81
29634	549383	549921	9.21E-42	0.85
29634	561912	562437	3.49E-83	0.94
29634	579454	579698	1.23E-20	0.77
29634	579950	580532	2.58E-28	0.84
29634	581457	581960	6.35E-30	0.87
29634	582592	583634	1.13E-46	0.87
29634	588543	588800	7.89E-35	0.71
29634	594498	594829	1.25E-14	0.89
29634	635712	636604	3.65E-73	0.89
29634	638840	640295	2.77E-39	0.82
29634	646925	648692	2.88E-103	0.8
29634	650355	651254	1.24E-23	0.77
29635	11371	11741	1.42E-15	0.8
29635	19340	19668	1.24E-07	0.72
29635	51418	52021	5.60E-17	0.76
29635	62069	62406	7.49E-27	0.69
29635	65955	66537	1.46E-26	0.84
29635	79882	80625	5.47E-48	0.85
29635	99156	100058	8.74E-32	0.84
29635	100303	100949	7.83E-13	0.83
29635	108478	109158	1.35E-35	0.67
29635	109748	110364	4.61E-45	0.86
29635	111074	111433	4.05E-14	0.78
29635	111776	113953	2.26E-113	0.91
29635	119191	119431	4.40E-10	0.81
29635	120225	120673	8.65E-15	0.74
29635	134240	134483	6.38E-24	0.9
29635	134690	134933	5.43E-37	0.95
29635	135312	135935	3.01E-97	0.94
29635	138724	139682	4.97E-37	0.83
29635	141087	141601	7.09E-17	0.82
29635	192501	193267	8.18E-16	0.73
29635	200596	201169	1.61E-23	0.78
29636	1885	3041	6.02E-30	0.75
29636	15198	15742	1.72E-55	0.94
29636	20097	20980	3.35E-35	0.75
29636	21300	21747	1.32E-13	0.64
29636	22900	23557	3.27E-25	0.72

29636	27845	28471	1.05E-34	0.65
29636	32410	32852	3.36E-63	0.94
29636	33171	33478	1.40E-35	0.92
29636	61598	62176	3.00E-20	0.88
29636	102012	102653	1.84E-34	0.86
29636	103840	105248	1.25E-42	0.87
29636	109298	109821	1.05E-34	0.83
29636	113769	114877	1.92E-52	0.68
29636	157492	157786	3.53E-41	0.92
29636	158659	159934	1.32E-59	0.85
29636	160342	160743	3.56E-39	0.86
29636	160984	161253	1.84E-41	0.89
29636	161514	162993	9.06E-74	0.95
29636	165039	165571	2.97E-24	0.91
29636	228322	228526	2.43E-07	0.8
29636	232313	232704	1.36E-17	0.85
29636	236644	237407	4.57E-43	0.86
29636	237900	238100	2.35E-25	0.92
29636	239812	240240	2.22E-16	0.78
29636	240976	241351	1.19E-16	0.85
29636	288238	288675	2.81E-16	0.64
29636	303645	303900	3.66E-17	0.83
29636	304212	304424	5.91E-13	0.71
29636	326631	327376	4.97E-67	0.93
29636	330563	330940	4.36E-38	0.94
29636	331209	332083	2.83E-81	0.88
29636	332652	333417	1.52E-36	0.87
29636	336751	337084	9.82E-18	0.92
29636	386728	387054	1.93E-20	0.82
29637	8962	11225	1.43E-82	0.85
29637	16671	17069	2.84E-25	0.9
29637	29299	29927	2.12E-35	0.75
29637	39718	40149	5.73E-26	0.83
29637	46926	47470	4.08E-15	0.61
29637	52576	52971	9.05E-32	0.66
29637	53331	53856	1.10E-25	0.64
29637	56410	56992	4.88E-29	0.87
29637	61255	61499	7.71E-43	0.84
29637	82902	83579	8.80E-44	0.79
29637	89127	89543	5.89E-23	0.78
29637	136887	138237	5.32E-54	0.86
29637	138726	140282	2.37E-62	0.87
29637	140731	141232	4.26E-34	0.82
29637	142814	143709	1.35E-37	0.87
29637	144720	144955	2.09E-04	0.37
29637	164095	164961	8.65E-41	0.75
29637	175813	176493	2.56E-41	0.64
29637	198958	199499	2.85E-44	0.84
29637	200985	202088	5.55E-60	0.87
29637	209666	209968	9.97E-11	0.72
29637	219448	219918	2.38E-14	0.8
29637	305450	305927	5.69E-25	0.76
29637	306449	306925	2.06E-22	0.81

29637	336113	336493	1.80E-22	0.69
29637	341733	343252	8.96E-105	0.89
29637	344483	344862	1.98E-44	0.94
29637	345084	345536	5.33E-61	0.77
29638	16479	17752	1.65E-40	0.79
29638	18344	19232	4.96E-39	0.84
29638	20875	21264	6.06E-12	0.81
29638	22650	23111	5.63E-11	0.73
29638	25473	26824	9.25E-57	0.81
29638	28810	29064	5.18E-32	0.95
29638	30424	30982	1.52E-48	0.89
29638	31678	32139	1.23E-26	0.86
29638	38962	39380	1.03E-52	0.82
29638	86208	86521	1.38E-13	0.81
29638	95260	95965	3.46E-20	0.72
29638	158727	159565	1.90E-90	0.92
29638	159862	160093	3.82E-17	0.75
29638	176438	176725	3.74E-41	0.89
29638	193462	193853	7.72E-24	0.83
29638	194529	194731	2.70E-13	0.79
29638	196364	196665	2.69E-17	0.82
29638	217672	218838	7.71E-43	0.8
29638	219262	219657	1.65E-48	0.87
29638	220972	221774	1.23E-38	0.9
29638	223255	224215	5.70E-53	0.89
29639	4783	5747	2.70E-98	0.93
29639	6096	6651	9.58E-68	0.93
29639	19753	20083	4.24E-19	0.9
29639	42937	43178	3.85E-10	0.84
29639	53849	54186	9.29E-34	0.93
29639	67393	67876	1.77E-28	0.96
29639	75614	76621	1.42E-54	0.94
29640	20808	21997	1.12E-130	0.89
29640	22807	23062	4.62E-21	0.82
29640	23314	24951	1.26E-277	0.91
29640	36995	37287	2.23E-18	0.91
29640	54011	54247	1.10E-11	0.79
29640	55889	56220	8.52E-24	0.94
29640	70972	71314	1.29E-20	0.7
29640	72765	73471	4.04E-62	0.85
29640	85539	86021	6.62E-31	0.88
29640	88047	88457	3.66E-28	0.97
29640	94775	96526	2.33E-134	0.76
29640	99439	100158	2.27E-40	0.88
29640	114797	115148	6.60E-16	0.82
29640	120562	121295	1.87E-29	0.81
29640	151921	152457	5.53E-28	0.85
29641	6549	7233	2.31E-26	0.74
29641	7441	7844	1.86E-29	0.88
29641	15326	16172	2.94E-35	0.82
29641	29940	30879	1.50E-56	0.94
29641	33320	33600	2.55E-20	0.86
29641	34317	34832	2.10E-13	0.85

29641	49289	49575	1.05E-22	0.87
29641	50105	50533	8.12E-15	0.78
29641	54707	54910	1.86E-11	0.94
29641	55155	55408	1.05E-37	0.9
29641	56216	56565	6.76E-45	0.96
29641	57997	58288	7.96E-11	0.8
29641	60585	60983	1.48E-19	0.96
29641	68036	68508	2.33E-27	0.84
29641	70085	70451	3.09E-16	0.8
29641	74867	75874	2.47E-22	0.73
29641	93624	93991	2.42E-22	0.85
29641	95319	95668	4.35E-35	0.78
29641	96092	96463	1.92E-53	0.81
29641	96848	97380	8.88E-103	0.86
29641	112079	113294	3.15E-95	0.66
29641	123386	124801	4.13E-66	0.7
29641	143794	144127	7.14E-11	0.7
29641	155422	156195	1.60E-39	0.94
29642	21628	22165	4.81E-14	0.79
29642	22549	22986	3.22E-20	0.84
29642	35959	36421	9.57E-09	0.81
29642	43387	43634	1.90E-29	0.96
29642	79016	79260	1.32E-10	0.78
29642	82295	83246	3.80E-30	0.66
29642	84049	84319	2.26E-41	0.91
29642	84550	85330	1.13E-29	0.82
29642	106693	107590	2.76E-75	0.83
29642	111751	112752	3.05E-52	0.94
29642	117083	117450	4.32E-17	0.82
29643	1609	1980	7.02E-33	0.83
29643	66856	67388	1.90E-11	0.78
29643	71278	71691	4.23E-10	0.73
29644	9590	9887	2.99E-12	0.61
29644	10639	11557	1.16E-105	0.94
29644	15367	16109	1.09E-44	0.88
29644	59494	60191	3.80E-19	0.62
29644	69842	70834	4.96E-52	0.69
29644	71505	73209	1.73E-105	0.64
29645	28677	28989	4.01E-21	0.68
29645	105596	105832	1.16E-13	0.8
29645	121681	122135	1.15E-03	0.75
29646	25156	25495	1.65E-65	0.87
29646	39419	39713	3.41E-17	0.88
29646	40743	41089	5.42E-35	0.93
29646	47816	48876	2.96E-45	0.83
29646	50732	51943	4.43E-75	0.86
29646	70315	70820	3.71E-25	0.78
29646	71901	73168	1.95E-55	0.76
29646	84112	84367	3.60E-18	0.64
29646	98799	99651	1.34E-189	0.81
29646	101167	101585	5.73E-92	0.89
29646	101834	102150	2.28E-71	0.87
29646	102361	102616	4.55E-33	0.84

29646	105308	106029	2.32E-31	0.86
29646	107323	108687	7.61E-66	0.68
29646	132733	133467	3.26E-47	0.78
29646	133729	134195	1.42E-72	0.81
29646	156506	157645	4.27E-100	0.87
29646	158550	159307	1.25E-24	0.77
29646	160276	161183	1.09E-23	0.84
29646	167816	168786	5.32E-47	0.79
29646	169650	170582	2.18E-36	0.75
29646	171694	172230	2.11E-33	0.93
29646	186384	186701	8.37E-06	0.77
29646	197332	198020	3.53E-32	0.87
29646	246927	247452	5.13E-33	0.9
29646	247708	248553	3.52E-32	0.88
29646	253950	255764	2.24E-55	0.66
29646	343861	344422	2.96E-20	0.78
29646	350570	351187	3.06E-42	0.63
29646	368605	370072	2.06E-42	0.85
29646	370279	370592	3.07E-09	0.78
29646	370782	371037	1.98E-19	0.81
29646	375713	376025	6.70E-42	0.87
29646	381273	382863	9.34E-88	0.77
29646	399629	400900	8.83E-55	0.69
29646	409323	409912	3.40E-13	0.79
29647	2083	2384	2.47E-06	0.78
29647	5170	5673	3.63E-21	0.81
29647	5302	5851	1.84E-28	0.83
29647	22935	23643	2.43E-26	0.8
29647	24218	24497	2.35E-38	0.88
29647	27239	27545	2.10E-31	0.93
29647	30438	32049	2.99E-68	0.65
29647	33021	33876	1.52E-83	0.93
29647	35117	35432	5.87E-30	0.95
29647	35676	36123	6.88E-38	0.96
29647	38420	39196	5.87E-54	0.92
29647	44397	46047	1.62E-114	0.86
29647	62280	64512	9.76E-141	0.86
29647	64716	65497	1.07E-38	0.93
29647	72461	72858	6.92E-17	0.79
29647	89127	89477	9.56E-28	0.89
29647	90505	91511	7.27E-57	0.88
29647	96480	97014	1.43E-28	0.89
29647	98077	98625	4.01E-41	0.61
29647	101866	104014	9.83E-61	0.7
29647	104664	105204	2.44E-40	0.84
29647	105221	105537	1.77E-23	0.88
29647	124970	126101	3.71E-50	0.89
29647	177170	177642	9.26E-41	0.88
29647	196695	197571	1.27E-31	0.69
29647	231874	232363	7.70E-16	0.74
29647	232647	233273	1.39E-19	0.82
29647	268004	268567	1.00E-25	0.77
29647	270349	270791	5.09E-19	0.84

29647	318117	318528	2.75E-09	0.81
29647	325057	325451	6.40E-17	0.76
29647	335291	335514	2.09E-24	0.87
29647	363851	364436	1.22E-39	0.83
29647	380966	381486	2.14E-49	0.86
29647	383959	384251	8.51E-16	0.75
29647	394804	396177	1.21E-90	0.84
29647	399319	399685	3.56E-25	0.88
29647	400087	400290	2.26E-36	0.96
29647	404635	404979	4.55E-19	0.67
29647	443873	444705	1.92E-36	0.85
29647	446375	447327	1.82E-74	0.92
29647	447697	448302	7.07E-19	0.82
29647	448635	449105	2.25E-80	0.9
29647	449342	450984	8.88E-64	0.78
29647	511086	511476	1.53E-31	0.89
29647	517548	517985	5.88E-25	0.86
29647	533539	534135	2.87E-35	0.96
29647	534715	535655	1.10E-26	0.76
29647	542105	542735	3.80E-42	0.88
29647	546846	547985	3.39E-48	0.8
29647	567746	568429	4.67E-27	0.8
29647	588770	589127	3.91E-13	0.94
29647	589419	589877	9.27E-11	0.94
29647	608185	608673	5.19E-22	0.87
29647	619339	619668	1.52E-08	0.8
29647	640764	641487	1.37E-57	0.81
29647	642087	642466	1.30E-24	0.69
29647	667080	667692	9.34E-26	0.74
29647	668336	668980	5.10E-47	0.91
29647	670328	671140	2.30E-49	0.77
29647	673057	673442	1.33E-37	0.84
29647	710914	711394	1.73E-37	0.92
29647	711923	712644	1.03E-84	0.81
29647	716691	717264	1.43E-54	0.81
29647	722076	723046	8.97E-43	0.84
29647	726377	727248	1.17E-37	0.86
29647	738738	739319	1.61E-29	0.73
29647	743065	743341	2.11E-40	0.89
29648	13182	13636	1.55E-26	0.77
29648	36472	37042	1.36E-28	0.82
29648	41892	42293	5.86E-39	0.97
29648	48224	49031	7.19E-55	0.85
29648	49061	49348	1.09E-17	0.86
29648	84504	84753	1.29E-14	0.91
29648	95128	96765	1.36E-163	0.89
29648	97211	97752	4.20E-77	0.88
29648	101795	102119	1.71E-06	0.77
29648	102570	102891	1.15E-11	0.81
29648	109743	110558	7.57E-42	0.69
29648	121621	122282	8.37E-43	0.73
29648	122591	123302	8.41E-89	0.64
29648	129880	130286	3.54E-13	0.78

29648	170033	171167	1.08E-76	0.67
29648	174624	174842	7.89E-12	0.97
29648	211727	212116	7.46E-28	0.8
29648	212329	213103	4.28E-27	0.86
29648	219087	219395	8.35E-22	0.75
29648	240569	241349	5.40E-57	0.86
29648	243134	243360	8.34E-24	0.72
29648	269744	270219	2.17E-07	1
29648	315046	315311	2.62E-21	0.95
29648	341083	341586	8.24E-11	0.72
29648	344863	345337	6.65E-36	0.92
29648	372168	372875	1.39E-42	0.84
29648	373433	373977	7.50E-24	0.77
29648	374861	375848	4.12E-43	0.89
29648	376595	377034	1.04E-14	0.71
29648	382082	382728	1.22E-17	0.64
29648	385070	385557	2.01E-27	0.73
29648	401123	402007	7.99E-18	0.78
29648	408788	409229	2.66E-24	0.79
29648	420802	421616	5.05E-54	0.89
29648	422585	423881	2.11E-77	0.89
29648	425608	425953	7.67E-21	0.83
29648	427285	427531	8.89E-29	0.95
29648	448432	448709	4.08E-10	0.7
29648	457182	457541	3.33E-17	0.85
29648	462758	463474	1.88E-33	0.83
29648	473934	474235	1.31E-08	0.71
29648	481025	481576	2.10E-23	0.86
29648	484254	484914	3.76E-37	0.93
29648	486379	486694	1.97E-28	0.84
29648	487413	487885	5.89E-12	0.79
29648	493637	494087	8.45E-26	0.91
29648	495854	496260	2.63E-15	0.79
29648	528815	529022	6.19E-14	0.74
29648	529590	530068	1.75E-43	0.77
29648	532654	533159	1.92E-10	0.74
29648	535887	536362	1.31E-14	0.93
29648	537117	537358	4.25E-24	0.97
29648	542618	543255	2.44E-18	0.75
29648	543674	544559	2.44E-84	0.91
29648	581403	582135	6.98E-24	0.6
29648	607647	608024	6.14E-32	0.77
29648	610566	611006	7.01E-41	0.67
29648	671491	671987	1.65E-18	0.92
29648	672286	672699	5.44E-37	0.92
29648	720069	721891	3.67E-119	0.88
29648	722515	723178	1.11E-38	0.83
29648	729774	730263	1.39E-11	0.85
29648	766920	767125	1.85E-10	0.73
29648	767447	767895	1.25E-10	0.8
29648	769606	769991	2.30E-09	0.83
29648	770760	771299	2.41E-39	0.89
29648	771514	772993	1.44E-98	0.71

29648	774647	774966	2.76E-13	0.78
29648	791852	792181	3.82E-10	0.79
29649	2740	3171	2.10E-09	0.95
29649	31338	31719	3.34E-13	0.96
29649	33335	33549	2.19E-18	0.95
29649	35118	35452	3.97E-11	0.95
29649	59430	59683	8.85E-16	0.83
29650	2055	2302	9.63E-12	0.75
29650	7895	8523	3.40E-43	0.93
29650	18193	18515	1.41E-06	0.62
29650	29829	30325	1.46E-07	0.7
29650	34555	35087	8.34E-14	0.77
29650	43583	45278	6.81E-117	0.88
29650	45498	46052	1.43E-89	0.92
29650	48406	48870	3.20E-18	0.64
29650	50433	50899	1.72E-16	0.77
29650	51885	52723	1.65E-35	0.63
29650	57350	57996	8.06E-21	0.8
29650	58863	60143	1.30E-35	0.83
29650	63946	64268	9.28E-15	0.81
29650	71645	72199	1.90E-78	0.94
29650	101954	102308	8.51E-20	0.93
29650	113260	113678	4.23E-22	0.94
29650	114554	115001	5.95E-18	0.81
29650	115217	116384	1.99E-43	0.81
29650	121198	121594	6.54E-13	0.77
29650	140558	140791	1.47E-14	0.92
29650	156282	157050	4.83E-64	0.73
29650	157830	158233	1.32E-36	0.93
29650	159055	160075	3.04E-61	0.81
29650	161649	162784	9.33E-76	0.87
29650	166891	167313	2.73E-39	0.94
29650	170613	170890	2.63E-08	0.79
29650	191092	191313	1.86E-11	0.91
29650	193681	194586	4.60E-32	0.86
29650	195946	196150	3.64E-38	0.93
29650	196389	197210	6.92E-61	0.94
29650	202082	202305	8.79E-07	0.78
29650	204948	205546	9.18E-53	0.92
29651	5971	6316	4.86E-13	0.94
29651	10931	12149	1.59E-55	0.87
29651	13485	13832	1.21E-29	0.95
29651	14587	14994	6.62E-20	0.92
29651	15401	17163	3.19E-191	0.87
29651	19100	19456	1.02E-28	0.89
29651	37115	37506	1.63E-14	0.73
29651	65653	66413	2.60E-61	0.94
29651	69041	69569	9.19E-17	0.69
29651	76780	77059	7.92E-30	0.96
29651	88058	89371	1.83E-35	0.76
29651	107103	107356	4.33E-32	0.74
29651	107867	108473	9.69E-27	0.93
29651	124030	124671	7.11E-46	0.88

29651	146039	146908	2.53E-79	0.85
29651	155209	155425	7.47E-42	0.95
29651	171711	172147	1.08E-15	0.87
29652	5270	5863	7.69E-53	0.76
29652	15616	15882	5.93E-10	0.93
29652	45519	45785	8.18E-11	0.82
29652	72426	72878	3.39E-08	0.84
29652	134957	135387	2.56E-21	0.82
29652	177561	178455	2.01E-49	0.87
29652	180729	181644	3.66E-51	0.87
29652	263454	263714	2.32E-11	0.91
29652	317142	317460	1.17E-16	0.77
29652	325920	327151	2.05E-43	0.9
29652	335661	336184	1.49E-61	0.88
29652	356512	356991	7.54E-38	0.89
29652	383728	384507	3.40E-62	0.67
29652	384768	385354	6.27E-26	0.73
29653	29761	30008	9.94E-20	0.92
29653	50309	50863	8.86E-47	0.83
29653	56934	57135	1.16E-11	0.62
29653	59379	59639	2.76E-12	0.75
29653	63648	64090	2.84E-16	0.78
29653	66494	67244	1.72E-35	0.78
29653	70262	70754	4.58E-27	0.9
29653	76143	76642	4.56E-22	0.81
29653	76946	77186	5.51E-27	0.88
29653	87849	88314	3.31E-11	0.73
29653	124785	125163	5.82E-06	0.86
29653	139800	140140	1.67E-21	0.88
29653	154536	155339	1.73E-67	0.94
29653	160820	161022	3.97E-08	0.94
29653	162445	162906	2.21E-13	0.83
29653	165706	166034	3.25E-41	0.93
29654	4175	4663	8.78E-28	0.84
29654	5252	5536	3.15E-11	0.8
29654	6291	6668	4.45E-38	0.91
29654	8589	9334	4.85E-33	0.8
29654	9666	10937	9.45E-59	0.93
29654	11846	12107	7.76E-40	0.95
29654	13338	13905	1.74E-52	0.95
29654	16119	16736	2.98E-21	0.84
29654	31558	32033	2.97E-04	0.94
29654	38398	38638	5.52E-13	0.92
29654	87195	87961	1.69E-38	0.84
29654	103907	104390	5.63E-23	0.71
29654	114563	115344	2.02E-23	0.62
29654	117500	118948	1.16E-65	0.82
29654	119483	120017	1.24E-59	0.88
29654	120218	120488	1.22E-09	0.8
29654	124774	125142	2.02E-23	0.86
29654	128312	128716	6.16E-11	0.74
29654	156410	158307	2.44E-204	0.89
29654	163038	163341	4.82E-26	0.85

29654	163616	163914	9.51E-40	0.9
29654	165576	166368	4.80E-43	0.66
29654	173634	173860	5.75E-12	0.7
29654	178254	178750	1.74E-39	0.91
29654	179006	179500	9.67E-99	0.95
29654	185602	186046	1.70E-63	0.99
29654	186646	187373	1.60E-30	0.61
29654	196783	197190	1.59E-12	0.91
29654	216733	217224	2.19E-30	0.9
29654	224770	225246	3.22E-19	0.84
29656	21	329	2.68E-29	0.8
29656	848	1309	6.31E-43	0.93
29656	22929	23503	4.22E-23	0.77
29656	25104	25419	5.38E-28	0.67
29656	29416	29636	2.12E-13	0.78
29656	71633	72098	7.92E-19	0.87
29656	80447	81085	6.31E-51	0.91
29656	83325	83576	3.35E-13	0.83
29656	91315	91763	1.83E-42	0.91
29656	91993	92273	3.43E-30	0.82
29656	92540	93145	5.86E-50	0.76
29656	100071	101714	6.99E-55	0.76
29656	106240	106461	8.29E-11	0.8
29656	125605	126283	2.55E-33	0.85
29656	137039	138060	6.55E-42	0.81
29656	140674	141082	1.64E-21	0.93
29656	141319	141658	4.06E-67	0.85
29656	171340	171924	3.09E-15	0.93
29656	183639	183900	3.51E-24	0.93
29656	184128	185640	6.97E-72	0.88
29656	193219	193560	2.55E-20	0.71
29656	194249	195405	1.10E-64	0.87
29656	205496	205826	2.60E-49	0.91
29656	223387	223622	6.01E-06	0.61
29657	12517	15051	5.18E-79	0.75
29657	21903	22138	1.09E-07	0.65
29657	46785	47196	2.00E-14	0.79
29657	56282	57481	1.36E-38	0.63
29657	77279	77744	4.91E-32	0.94
29657	80712	81110	1.42E-17	0.86
29657	82877	83541	2.35E-107	0.95
29657	84999	85236	2.46E-15	0.85
29657	87983	88372	1.11E-30	0.89
29657	89438	89926	1.30E-18	0.85
29657	90171	90735	6.08E-35	0.85
29657	95526	95974	5.61E-17	0.81
29657	154266	154476	1.36E-11	0.67
29657	177286	178068	2.64E-47	0.87
29657	179644	180753	2.33E-77	0.88
29657	181980	182551	2.50E-35	0.79
29657	182822	183178	2.59E-16	0.82
29657	190812	191308	1.46E-23	0.85
29657	192192	192524	3.21E-19	0.93

29657	211646	212268	1.91E-32	0.79
29658	9907	10176	1.08E-06	0.8
29658	57621	57929	2.49E-04	0.83
29659	8319	8554	4.46E-12	0.84
29659	21845	22341	2.12E-24	0.91
29659	32779	33311	8.30E-24	0.88
29659	34223	34514	1.23E-40	0.98
29659	45173	46171	1.26E-28	0.7
29659	46408	46939	1.47E-19	0.63
29659	53146	54675	4.89E-101	0.67
29659	55699	56890	7.03E-110	0.9
29659	66893	67120	1.33E-15	0.89
29659	67371	68178	1.37E-69	0.87
29659	76427	76767	1.13E-05	0.81
29659	104491	105008	8.44E-13	0.7
29660	2817	3460	4.30E-42	0.9
29660	23680	24718	1.10E-68	0.79
29660	26401	26822	1.13E-30	0.98
29660	50388	50594	4.38E-54	0.95
29660	50912	51587	2.09E-24	0.81
29660	52853	53273	1.01E-31	0.77
29660	53610	54280	3.20E-86	0.85
29660	58709	59070	6.18E-14	0.78
29660	62581	62860	1.42E-21	0.93
29660	70409	70686	7.07E-14	0.84
29660	95630	96137	6.32E-50	0.84
29660	96874	97112	9.94E-28	0.96
29660	97478	98757	6.13E-156	0.91
29660	99968	100211	4.72E-42	0.95
29660	100821	101416	3.85E-91	0.9
29660	102047	102527	5.75E-82	0.66
29660	103085	103438	7.25E-30	0.84
29660	103663	103993	1.36E-23	0.82
29660	120724	121159	6.76E-32	0.84
29660	121368	122263	7.10E-40	0.84
29660	122510	123014	2.13E-54	0.85
29660	126428	127223	1.25E-11	0.64
29660	135438	136896	1.03E-33	0.75
29660	137942	138271	8.35E-15	0.72
29660	140245	141137	9.76E-28	0.79
29660	148009	148439	1.83E-14	0.8
29660	171325	171571	4.74E-09	0.83
29660	213744	214019	6.25E-22	0.95
29660	222058	222463	4.72E-19	0.78
29660	223767	224159	1.24E-14	0.89
29660	225225	225570	5.18E-15	0.91
29660	228537	229255	9.55E-44	0.88
29660	231234	231764	5.23E-99	0.76
29660	244996	245215	5.08E-24	0.63
29660	255712	256339	3.69E-25	0.82
29660	264904	265936	5.33E-46	0.81
29660	328275	328662	1.87E-14	0.83
29660	337193	337517	2.01E-12	0.78

29660	346725	347306	2.16E-12	0.78
29661	10598	12549	8.00E-88	0.84
29661	15362	15603	1.16E-36	0.74
29661	19389	19685	8.23E-18	0.65
29661	56080	56487	1.84E-18	0.65
29661	56725	57217	3.14E-28	0.91
29661	66498	67826	3.57E-73	0.93
29661	68044	68846	4.32E-47	0.95
29661	69347	69596	1.47E-10	0.6
29661	69837	70412	4.60E-23	0.85
29661	138076	138351	1.34E-11	0.64
29661	159594	159850	1.41E-26	0.88
29661	204858	206111	3.39E-54	0.79
29661	211351	211647	7.24E-09	0.82
29661	242542	242751	2.52E-14	0.83
29661	246654	247701	8.42E-36	0.78
29661	263763	264209	3.04E-23	0.84
29661	266395	266718	2.55E-14	0.71
29661	266968	267355	3.34E-17	0.73
29661	279254	279511	1.39E-40	0.83
29661	283983	284474	1.86E-16	0.76
29661	290695	291222	1.92E-25	0.77
29661	292241	292576	3.37E-31	0.84
29661	296344	296826	1.48E-13	0.81
29661	299591	300061	1.01E-19	0.83
29661	300379	300653	9.49E-20	0.93
29661	300942	301448	1.17E-31	0.91
29661	302617	303147	2.99E-25	0.77
29661	320027	320319	6.49E-17	0.84
29661	351537	352069	2.09E-19	0.8
29661	352612	353133	1.16E-20	0.75
29661	393316	393753	6.73E-25	0.69
29661	421060	421770	5.79E-29	0.89
29662	5553	5880	3.18E-12	0.89
29662	6129	7093	2.03E-110	0.91
29662	13473	13822	1.46E-63	0.96
29662	15024	15727	1.33E-34	0.77
29662	15945	16340	6.95E-31	0.93
29662	16542	16984	1.47E-27	0.96
29662	20972	21314	2.30E-18	0.87
29662	22195	22875	2.51E-37	0.88
29662	23233	24279	9.25E-128	0.89
29662	24922	25292	1.15E-33	0.92
29662	25498	25989	6.32E-76	0.86
29662	46264	46601	2.00E-11	0.81
29662	47122	47467	9.68E-17	0.94
29662	48911	49617	1.54E-36	0.87
29662	54993	55412	1.14E-33	0.91
29662	62275	62698	2.24E-74	0.95
29662	84087	84409	1.96E-15	0.82
29662	85577	85872	2.28E-24	0.85
29662	87389	88940	2.18E-58	0.79
29662	100107	100807	8.62E-15	0.83

29662	104947	105336	2.01E-28	0.97
29662	109677	110189	7.58E-40	0.84
29662	111932	112511	1.75E-58	0.94
29662	178289	178910	2.36E-13	0.81
29662	179334	179652	1.08E-12	0.79
29662	191143	191568	2.23E-28	0.89
29662	193737	194258	1.41E-20	0.87
29662	194600	194997	6.66E-40	0.92
29662	195608	197573	6.87E-95	0.92
29662	209975	210237	5.19E-51	0.94
29662	211055	211418	1.97E-35	0.8
29662	212659	212869	2.96E-21	0.91
29662	215097	216190	2.24E-103	0.89
29662	216473	219151	8.03E-163	0.79
29662	220579	222204	7.40E-45	0.78
29662	224929	225644	3.06E-36	0.85
29662	232490	233030	1.20E-14	0.77
29662	268900	269168	2.71E-07	0.85
29662	272372	272864	5.13E-19	0.83
29662	276062	276746	7.34E-27	0.95
29662	285669	286080	1.74E-50	0.95
29662	294406	294717	3.48E-04	0.9
29665	22353	22957	5.97E-30	0.89
29665	27468	27982	4.41E-31	0.81
29665	31368	32401	4.93E-151	0.92
29666	26787	27683	1.76E-51	0.85
29666	30130	30504	1.68E-28	0.91
29666	46366	46664	6.97E-15	0.92
29666	57435	57693	1.51E-09	0.89
29666	59732	60088	2.28E-15	0.79
29666	60527	61153	5.45E-30	0.92
29666	93138	93520	1.59E-16	0.82
29666	98717	99184	3.04E-11	0.78
29666	101675	102435	2.21E-28	0.82
29666	110745	111273	1.32E-26	0.64
29666	124139	124504	2.35E-31	0.9
29666	125296	125787	2.84E-30	0.98
29666	137464	137772	5.56E-48	0.9
29666	138181	138451	5.91E-20	0.76
29666	142095	142418	1.63E-21	0.78
29666	153373	153856	9.11E-16	0.76
29666	154483	154910	1.25E-13	0.68
29666	158993	159448	1.59E-23	0.77
29666	194118	195537	8.51E-91	0.8
29666	196681	197296	5.26E-28	0.68
29666	201875	202295	3.96E-75	0.86
29666	202675	203129	3.83E-47	0.71
29666	209536	209878	3.55E-14	0.71
29666	210370	210765	2.23E-42	0.96
29666	214139	214426	5.01E-11	0.7
29666	241341	242364	4.36E-42	0.84
29666	261774	262571	1.69E-30	0.73
29666	282500	282920	1.63E-23	0.86

29666	285052	286333	3.87E-93	0.94
29666	293376	293615	1.24E-06	0.84
29666	303428	303748	1.64E-47	0.85
29666	379726	380310	1.01E-30	0.92
29666	382382	382636	1.66E-07	0.8
29666	388556	389500	1.07E-55	0.69
29666	389866	390247	1.67E-22	0.81
29666	391471	392536	6.03E-57	0.87
29666	402576	402873	1.52E-06	0.89
29666	448927	450735	2.69E-146	0.83
29666	460290	460715	1.75E-23	0.69
29666	462161	462437	1.92E-09	0.69
29666	465753	466202	2.34E-72	0.89
29666	472517	473054	2.62E-16	0.8
29666	475566	475986	3.40E-24	0.79
29666	476765	477242	5.04E-37	0.94
29666	500597	501069	4.27E-25	0.6
29666	501274	502730	1.85E-56	0.76
29666	504186	504421	2.14E-24	0.93
29666	504704	505616	7.96E-37	0.92
29666	506143	506720	1.15E-22	0.81
29666	507791	508313	2.02E-114	0.94
29666	513776	514121	1.04E-20	0.87
29666	515460	515809	1.01E-14	0.83
29666	534240	534522	4.93E-05	0.81
29666	534724	534980	1.35E-07	0.68
29666	554026	554329	1.64E-18	0.8
29667	55356	55785	2.56E-31	0.91
29667	66199	66755	1.79E-11	0.77
29667	70516	71381	5.82E-70	0.88
29667	74643	75507	1.37E-20	0.6
29667	97001	97380	7.52E-10	0.95
29667	103147	104685	2.11E-81	0.89
29667	122816	123204	1.23E-18	0.86
29667	124539	125130	1.49E-30	0.83
29667	126193	127295	1.06E-81	0.93
29667	130410	130711	6.08E-17	0.88
29667	142795	143186	2.94E-23	0.63
29667	158715	159259	1.66E-33	0.93
29667	212246	212520	9.06E-18	0.69
29667	229511	230392	1.68E-52	0.95
29667	230850	231405	2.22E-50	0.96
29667	240440	241159	5.32E-49	0.89
29667	242058	242378	1.73E-24	0.77
29667	256753	257105	2.96E-11	0.8
29668	1778	2123	4.81E-18	0.64
29668	3050	3282	9.07E-21	0.9
29668	6505	7734	2.60E-84	0.84
29668	27163	30153	4.03E-182	0.89
29668	81612	82080	2.34E-35	0.71
29668	107384	107687	1.80E-24	0.99
29668	112597	112812	3.69E-03	0.87
29668	145232	145491	3.04E-40	0.97

29668	145726	146631	6.27E-36	0.72
29668	147851	148164	6.56E-23	0.77
29668	176069	176576	7.18E-10	0.9
29668	181697	181981	1.28E-32	0.93
29668	182826	183060	4.47E-47	0.95
29668	185713	186188	5.82E-42	0.81
29668	210560	210991	1.05E-12	0.85
29668	214252	214679	6.83E-16	0.79
29668	214990	215521	3.95E-18	0.94
29668	226168	226375	4.26E-09	0.92
29668	235383	236078	6.53E-72	0.93
29668	243164	244113	5.28E-50	0.88
29668	244851	245298	1.35E-19	0.86
29668	245641	246221	1.62E-42	0.94
29668	264252	264646	3.91E-08	0.71
29669	22299	23496	1.39E-58	0.84
29669	29631	30350	5.36E-39	0.91
29669	33616	34222	3.28E-26	0.69
29669	35020	35392	6.11E-23	0.74
29669	35666	36183	3.32E-38	0.93
29669	36417	37046	3.63E-76	0.84
29669	46352	46918	4.79E-38	0.66
29669	57151	57407	3.14E-21	0.85
29669	74020	75116	1.55E-34	0.89
29669	118023	118725	3.95E-104	0.96
29669	144443	144797	1.87E-10	0.73
29669	151515	151766	2.78E-24	0.92
29669	182601	183424	3.15E-58	0.78
29669	197106	197658	1.85E-29	0.61
29669	201327	201607	7.34E-26	0.76
29669	232285	232541	2.49E-11	0.75
29669	236462	236668	1.84E-12	0.81
29669	244116	244859	3.58E-27	0.95
29669	247026	247544	2.51E-25	0.67
29669	250361	252831	2.19E-227	0.75
29669	253234	253826	3.53E-98	0.87
29669	256112	256467	8.97E-37	0.82
29669	309063	309413	1.51E-16	0.84
29669	313207	314002	1.58E-31	0.75
29669	315270	315528	3.20E-26	0.89
29669	319869	320109	3.77E-13	0.85
29670	21137	22184	2.47E-48	0.69
29670	33790	34272	4.77E-23	0.78
29670	35245	36296	3.25E-61	0.76
29670	36848	37311	3.21E-29	0.81
29670	37615	37893	1.37E-27	0.87
29670	42075	42484	3.30E-46	0.95
29670	42687	43024	1.91E-18	0.91
29670	48949	50783	1.28E-65	0.69
29670	51136	51981	6.75E-24	0.86
29670	68438	69952	2.31E-74	0.91
29670	81806	82368	1.68E-18	0.88
29670	87777	88304	8.30E-37	0.86

29670	97697	98124	1.12E-24	0.9
29671	442	970	1.64E-16	0.66
29671	3387	3590	4.43E-20	0.82
29671	9078	9611	3.61E-36	0.91
29671	9902	10243	1.23E-14	0.91
29671	12372	14798	4.05E-68	0.72
29671	87935	88753	2.05E-32	0.73
29671	90377	91181	2.19E-55	0.95
29671	93048	93656	2.26E-11	0.71
29671	111864	112330	1.40E-66	0.96
29671	115624	117433	1.88E-124	0.9
29671	133646	134880	1.12E-47	0.9
29671	135258	135596	1.35E-22	0.81
29671	167343	167622	1.19E-12	0.91
29671	192120	192684	7.76E-44	0.89
29671	196682	197035	1.93E-23	0.96
29671	197254	197693	2.49E-43	0.95
29671	199266	199566	1.01E-44	0.89
29672	33164	33505	3.98E-14	1
29672	125960	126197	1.26E-14	0.84
29672	167503	168047	1.96E-40	0.89
29672	257361	258063	1.69E-06	0.95
29672	258042	258525	8.30E-05	0.8
29672	281338	281743	4.22E-04	0.95
29672	284199	284463	5.07E-13	0.81
29672	286980	287198	3.27E-15	0.84
29672	292212	292638	6.57E-07	0.9
29672	302908	303567	2.10E-39	0.93
29672	396480	396896	4.00E-10	0.82
29672	401717	402116	1.29E-27	0.91
29672	402644	403101	2.26E-28	0.89
29673	25420	25832	1.15E-11	0.81
29673	32864	33260	9.72E-31	0.91
29673	33626	34793	8.61E-40	0.81
29673	52424	52847	4.77E-28	0.96
29673	70656	71295	1.52E-34	0.92
29673	82268	83048	5.16E-30	0.77
29673	121884	122719	2.96E-31	0.86
29673	138789	139393	4.71E-78	0.91
29673	139651	139963	2.25E-25	0.91
29673	144459	144931	3.40E-29	0.95
29673	145866	146359	8.56E-42	0.94
29673	170581	171282	1.09E-39	0.79
29673	184412	185068	2.70E-26	0.84
29673	224186	225378	6.21E-56	0.86
29673	230172	230643	1.75E-32	0.86
29673	230848	232126	8.43E-50	0.72
29673	257071	257795	1.99E-40	0.73
29673	320321	321292	3.30E-46	0.84
29673	321972	322262	2.59E-12	0.77
29673	324901	325425	3.24E-38	0.88
29673	327837	328133	1.15E-25	0.9
29673	334212	334659	4.14E-37	0.9

29673	347940	348599	5.37E-36	0.94
29673	366359	366974	5.63E-26	0.79
29673	370889	371747	2.45E-26	0.83
29674	11027	11325	1.30E-05	0.87
29674	28953	29340	9.08E-07	0.78
29674	35954	36268	1.30E-04	0.78
29674	37071	38097	2.29E-11	0.79
29674	81245	81459	1.57E-08	0.77
29674	120447	120755	3.59E-75	0.83
29674	137298	137640	9.00E-06	0.93
29674	140374	140714	6.88E-11	0.95
29674	141219	141779	8.83E-06	0.97
29674	167255	167547	8.50E-25	0.8
29674	189071	189337	5.85E-09	0.94
29674	192741	192998	7.62E-05	0.79
29674	229374	229747	1.83E-05	1
29674	234840	235910	3.63E-13	0.81
29674	254696	255190	7.00E-07	0.93
29674	287136	287570	2.05E-06	0.87
29674	290759	291146	2.83E-08	0.84
29674	303282	303928	2.73E-14	0.85
29674	326099	326441	7.08E-24	0.8
29675	9126	10906	6.03E-74	0.87
29675	51274	51634	5.75E-11	0.89
29675	109891	110734	7.80E-69	0.87
29675	122933	123708	2.29E-32	0.85
29675	124956	125159	3.12E-68	0.7
29675	130186	130559	4.99E-37	0.93
29675	156940	157277	4.50E-27	0.88
29675	181789	182146	1.26E-106	0.98
29675	189904	190190	1.96E-32	0.9
29675	193827	195540	1.42E-142	0.93
29675	225226	225572	3.13E-21	0.84
29675	226452	226872	7.45E-10	0.84
29675	327674	327902	6.49E-09	0.75
29676	5619	6223	2.95E-76	0.88
29676	54740	55109	5.05E-26	0.71
29676	79101	79385	2.11E-22	0.82
29676	84934	85584	5.25E-51	0.96
29676	85887	86132	3.42E-45	0.96
29676	87789	88682	1.22E-24	0.8
29676	110995	111435	1.20E-53	0.94
29676	141061	141897	9.14E-39	0.61
29676	144242	145072	7.41E-22	0.78
29676	155321	156668	3.28E-44	0.8
29676	173467	173724	1.29E-05	0.82
29676	191192	191887	5.61E-37	0.87
29676	203900	204897	1.33E-34	0.72
29676	206969	207245	1.91E-71	0.92
29676	215100	215449	4.88E-23	0.86
29676	215653	216647	1.98E-63	0.95
29676	224374	224907	8.87E-23	0.85
29676	226853	227107	8.31E-40	0.9

29676	260483	261017	9.99E-17	0.79
29676	336124	336567	7.63E-41	0.87
29676	342854	343546	6.50E-42	0.82
29676	363172	363526	1.39E-16	0.85
29676	367269	367694	7.14E-16	0.82
29676	371893	372145	1.71E-20	0.83
29676	420930	421540	1.12E-31	0.88
29676	434646	435423	8.14E-96	0.87
29676	436029	436991	1.49E-96	0.87
29676	441020	441334	2.19E-18	0.93
29676	441947	442348	1.44E-26	0.94
29676	445352	445557	8.88E-20	0.9
29676	487948	488488	8.84E-25	0.78
29676	567962	568270	2.08E-13	0.81
29676	580658	581261	1.23E-15	0.76
29676	596810	597631	9.30E-29	0.85
29677	23258	23570	4.30E-06	0.81
29677	73955	74197	5.82E-09	0.94
29677	110021	110469	8.01E-05	0.76
29677	177081	177396	1.09E-21	0.95
29677	237794	238231	4.80E-08	0.67
29677	240461	241574	1.07E-51	0.78
29677	242273	243625	1.98E-86	0.89
29677	246323	246851	2.31E-80	0.94
29677	343427	343732	9.85E-08	0.87
29678	3076	3412	7.37E-18	0.72
29678	23228	23765	9.20E-30	0.91
29678	26248	27002	2.04E-26	0.84
29678	27271	27532	6.78E-26	0.96
29678	28029	28383	4.33E-06	0.79
29678	32660	33035	5.13E-18	0.85
29678	33543	33954	2.01E-32	0.93
29678	40667	41320	3.20E-60	0.86
29678	41616	41986	9.56E-09	0.67
29678	49832	50231	8.40E-11	0.65
29678	62554	63053	1.42E-36	0.74
29678	64590	64837	6.85E-12	0.79
29678	97106	97760	1.17E-36	0.74
29678	98353	99841	7.66E-49	0.87
29678	100127	100454	2.65E-23	0.96
29678	100700	101435	4.87E-82	0.92
29678	101649	101967	2.03E-13	0.8
29678	131034	131357	6.98E-25	0.92
29678	131713	132491	5.94E-57	0.91
29678	161671	163412	2.59E-89	0.9
29678	198287	198539	5.11E-10	0.69
29679	64	667	2.18E-14	0.89
29679	25553	25980	2.18E-16	0.74
29679	64299	64705	2.08E-22	0.79
29679	65203	65892	1.30E-47	0.88
29679	67941	68337	9.14E-24	0.91
29679	105065	105684	9.19E-11	0.81
29679	112861	113181	3.09E-24	0.79

29679	130526	131605	4.87E-100	0.72
29679	150936	151143	1.11E-36	0.88
29679	157672	158049	1.45E-81	0.92
29680	12059	12803	2.30E-61	0.83
29680	20665	20955	5.38E-24	0.93
29680	26290	27106	9.95E-46	0.81
29680	35606	35838	2.33E-18	0.79
29680	153625	153830	6.97E-18	0.85
29680	156904	157338	3.24E-20	0.65
29680	162930	163485	1.42E-25	0.83
29680	194895	195444	1.15E-23	0.87
29680	201607	202410	7.12E-30	0.82
29680	208232	208628	1.42E-38	0.78
29680	208923	209354	8.86E-36	0.83
29680	228193	230246	1.13E-77	0.77
29680	231050	231350	5.93E-15	0.78
29680	235281	236275	8.96E-29	0.76
29680	251080	251825	3.36E-37	0.88
29680	252301	252626	6.26E-22	0.77
29680	252911	253784	2.50E-70	0.93
29680	254554	255508	1.29E-127	0.86
29680	256074	258980	3.49E-270	0.9
29680	259350	260083	4.84E-45	0.82
29680	271744	272394	2.84E-29	0.81
29680	274937	275436	2.73E-17	0.7
29680	284149	284425	1.71E-33	0.89
29680	291630	291902	6.35E-20	0.94
29680	301044	301436	1.01E-11	0.8
29680	309583	310226	1.55E-13	0.65
29680	313392	314076	1.29E-54	0.81
29680	318121	318396	2.36E-20	0.81
29680	326828	327344	3.48E-19	0.66
29680	330675	331422	2.35E-19	0.87
29680	343022	343481	3.44E-21	0.82
29680	365581	365990	3.12E-47	0.9
29680	366413	366738	1.43E-16	0.68
29680	381165	381766	7.19E-43	0.84
29680	381974	383064	4.91E-150	0.8
29680	388265	389036	1.71E-41	0.89
29680	389505	390245	3.16E-15	0.74
29680	391115	392208	3.43E-38	0.88
29680	393153	393466	3.83E-25	0.8
29680	421976	422313	5.81E-24	0.9
29680	448418	448725	4.16E-26	0.87
29680	449677	449944	1.90E-16	0.77
29680	451654	452418	1.35E-55	0.98
29680	457312	458239	1.22E-52	0.87
29680	460285	460506	3.99E-11	0.69
29680	471918	472217	7.45E-25	0.92
29680	485142	485963	1.63E-52	0.83
29680	486311	486516	1.02E-19	0.88
29680	503710	504998	1.08E-45	0.78
29680	510802	511246	8.07E-23	0.87

29680	511639	512178	4.54E-39	0.87
29680	512400	512821	2.96E-16	0.76
29680	513608	514515	1.16E-73	0.89
29680	514966	515314	9.53E-09	0.85
29680	516861	517802	3.84E-52	0.85
29680	522087	522687	9.85E-45	0.92
29680	591454	591774	3.07E-34	0.89
29680	591999	592432	4.18E-32	0.82
29680	599317	599943	5.72E-26	0.84
29680	621623	621947	9.55E-24	0.82
29681	13473	14181	1.48E-26	0.85
29681	21752	22342	2.15E-34	0.76
29681	24785	25404	4.09E-29	0.71
29681	26427	26737	1.86E-10	0.76
29681	37778	38558	4.59E-39	0.84
29681	39028	40381	1.47E-62	0.7
29681	42889	43847	1.87E-46	0.84
29681	45257	46415	7.26E-36	0.84
29681	46646	47089	2.31E-46	0.91
29681	47521	48022	6.51E-37	0.84
29681	84942	85718	1.52E-14	0.67
29681	89395	89697	1.65E-07	0.83
29681	101830	102548	5.07E-17	0.77
29681	138580	138884	1.15E-08	0.62
29681	141279	143335	9.54E-90	0.83
29681	147515	147983	3.42E-11	0.72
29681	155409	156925	4.29E-113	0.87
29681	179065	180378	5.23E-63	0.72
29681	181062	182103	9.37E-45	0.75
29681	186592	186950	3.50E-31	0.62
29681	187218	188503	9.14E-120	0.89
29681	188773	189369	1.09E-26	0.71
29681	211563	211810	7.50E-16	0.73
29681	214169	214980	9.31E-39	0.81
29681	254852	255461	2.92E-17	0.89
29681	256607	257412	5.88E-22	0.68
29681	281378	281581	8.56E-16	0.82
29681	344154	344391	2.06E-16	0.78
29681	347822	348346	3.79E-31	0.65
29681	360152	360401	2.13E-19	0.64
29681	361976	362353	2.43E-24	0.88
29681	374626	375197	3.09E-23	0.86
29681	375493	375861	2.24E-25	0.83
29681	376071	377138	2.19E-41	0.81
29681	377441	378645	9.86E-62	0.84
29681	398737	399037	7.10E-14	0.71
29682	5443	6104	5.80E-16	0.81
29682	11900	12449	1.64E-05	0.73
29682	32744	33568	3.35E-38	0.88
29682	34097	34500	5.80E-35	0.91
29682	37137	37846	6.76E-24	0.8
29682	37304	38037	3.16E-28	0.79
29682	38331	39443	1.68E-66	0.94

29682	64289	64708	3.99E-20	0.7
29682	80135	81275	7.50E-80	0.77
29682	139797	140348	4.24E-38	0.63
29682	140760	141110	2.15E-50	0.89
29682	146861	147089	8.37E-17	0.89
29682	147333	148149	3.22E-41	0.88
29682	160823	161369	1.74E-15	0.82
29682	192518	192823	8.71E-24	0.75
29682	194571	195337	1.99E-22	0.67
29682	199353	199606	1.45E-13	0.89
29682	200570	201604	3.14E-40	0.87
29682	205323	206151	3.39E-23	0.68
29682	223356	224369	8.66E-58	0.94
29682	224768	225073	5.84E-21	0.94
29682	225360	225724	1.58E-38	0.88
29682	233423	233668	8.52E-18	0.89
29682	236383	237219	1.59E-31	0.77
29682	239474	239702	1.70E-36	0.91
29682	241304	241781	3.14E-15	0.74
29682	246783	247144	1.99E-21	0.9
29683	18397	18732	3.80E-06	0.71
29683	83904	84136	1.63E-37	0.94
29683	114281	114933	1.19E-26	0.78
29683	159979	160402	3.47E-54	0.94
29683	162832	163418	6.09E-46	0.95
29683	173469	173836	6.38E-52	0.96
29683	174599	175303	9.44E-74	0.93
29683	176677	177644	1.42E-30	0.78
29683	201575	202224	7.65E-78	0.82
29683	202569	202872	4.52E-22	0.72
29683	203116	203519	3.14E-95	0.94
29683	203905	204835	5.80E-31	0.79
29683	210814	211200	4.87E-14	0.81
29683	211767	212543	5.22E-30	0.82
29683	224070	225051	1.63E-31	0.8
29683	234195	234789	2.95E-46	0.93
29683	247388	247606	2.02E-05	0.83
29683	248280	248840	5.85E-09	0.73
29683	249637	249888	5.65E-44	0.86
29683	252824	253025	2.26E-08	0.78
29683	252849	253176	7.80E-12	0.82
29684	3933	4286	7.15E-48	0.93
29684	58035	58262	1.54E-59	0.86
29684	83309	84458	4.54E-68	0.89
29684	88525	89031	4.91E-21	0.91
29684	91658	92574	2.56E-42	0.82
29684	117809	118260	1.16E-60	0.96
29684	127696	128114	3.60E-65	0.97
29684	132750	133854	1.39E-47	0.7
29684	152676	153365	2.66E-40	0.9
29684	158306	158897	4.44E-12	0.76
29684	176278	176614	2.34E-44	0.92
29684	181376	181673	6.85E-18	0.76

29684	217451	217681	5.14E-28	0.94
29684	218835	219322	6.41E-26	0.85
29684	220897	221434	9.21E-62	0.93
29684	221687	222074	1.22E-35	0.87
29684	227144	228098	2.37E-32	0.72
29684	239824	240413	6.41E-19	0.78
29684	241129	241591	1.80E-16	0.81
29684	254802	255010	5.01E-10	0.78
29685	1559	1780	7.38E-26	0.91
29685	6455	7628	1.56E-163	0.91
29685	10234	10857	1.40E-21	0.68
29685	32121	32400	5.44E-15	0.79
29685	32289	32645	1.52E-13	0.85
29685	62904	63112	1.44E-17	0.89
29685	66726	67085	1.03E-30	0.82
29685	146203	147157	4.51E-68	0.62
29685	165193	165428	2.06E-38	0.93
29685	184621	185279	2.74E-25	0.87
29685	188278	188714	6.21E-14	0.81
29685	190542	190808	1.53E-10	0.83
29685	203621	204171	2.53E-23	0.81
29685	217273	217716	5.15E-31	0.83
29685	221116	221560	1.08E-06	0.84
29685	239724	240455	5.41E-32	0.77
29686	9719	10074	5.87E-07	0.95
29686	11267	11892	1.76E-06	0.89
29686	49705	50209	9.30E-17	0.78
29686	60882	61395	7.22E-15	0.83
29686	64476	66017	2.69E-98	0.95
29686	68476	68730	6.47E-26	0.92
29686	70447	71006	2.35E-19	0.85
29686	71722	72023	1.82E-22	0.9
29686	74513	75777	6.00E-71	0.75
29686	81586	82155	5.41E-15	0.86
29686	90050	90542	3.38E-39	0.92
29686	103944	104335	8.08E-11	0.66
29686	119584	119796	7.46E-13	0.9
29686	124164	124893	1.15E-72	0.68
29686	125313	125651	3.94E-81	0.81
29686	147646	148018	2.65E-09	0.81
29686	151927	152700	1.77E-36	0.85
29686	154259	154736	3.59E-68	0.96
29686	159005	159340	1.65E-26	0.87
29686	172892	173366	1.02E-13	0.83
29686	210686	210948	6.27E-30	0.88
29686	211379	211617	1.82E-15	0.82
29686	224954	225626	1.92E-26	0.81
29686	235808	236429	9.86E-25	0.68
29686	259033	259547	5.19E-28	0.8
29686	259601	260119	5.96E-38	0.87
29686	294618	295179	2.76E-58	0.9
29686	295397	295752	2.79E-19	0.79
29686	303498	303853	3.68E-21	0.85

29686	312273	312572	1.10E-27	0.98
29686	317255	318003	6.91E-36	0.7
29686	322947	324038	2.40E-87	0.72
29686	324431	325419	1.96E-109	0.89
29686	344473	345272	8.32E-45	0.89
29686	358741	359038	6.44E-37	0.8
29686	393300	393752	6.53E-16	0.77
29686	405911	408026	2.81E-40	0.67
29687	17410	17714	7.31E-19	0.84
29687	19720	20281	3.72E-14	0.81
29687	40735	41352	8.61E-62	0.92
29687	58709	59032	4.02E-33	0.78
29687	62564	62830	3.68E-15	0.78
29687	67915	68271	1.79E-16	0.78
29687	68573	68825	7.44E-11	0.81
29687	71604	72286	6.94E-42	0.72
29687	72944	73575	7.24E-32	0.8
29687	81139	81668	8.76E-24	0.83
29687	89916	90139	3.93E-31	0.86
29687	90168	90675	1.00E-39	0.91
29687	91318	92235	1.30E-14	0.79
29687	101163	101763	4.31E-43	0.63
29687	103913	104272	1.34E-10	0.73
29687	108880	110111	2.31E-78	0.81
29687	110424	110735	1.64E-16	0.77
29687	111737	112614	1.90E-70	0.76
29687	115118	115562	6.51E-13	0.77
29687	126356	127500	9.04E-44	0.75
29687	129307	129547	2.20E-49	0.99
29687	129912	130890	2.17E-68	0.78
29687	165796	166058	4.97E-08	0.62
29687	166953	167583	5.60E-12	0.76
29687	179807	180117	1.47E-38	0.9
29687	180597	182071	2.44E-126	0.89
29687	182633	182925	1.04E-30	0.93
29687	198331	198669	7.61E-19	0.65
29687	198975	199731	1.84E-38	0.82
29687	200140	200525	5.38E-42	0.73
29687	216035	216698	1.81E-25	0.8
29687	217395	218306	2.97E-63	0.87
29687	219036	219322	3.30E-35	0.97
29687	234013	234416	3.23E-10	0.62
29688	10279	10479	5.98E-32	0.83
29688	47818	48586	2.38E-46	0.8
29688	52144	52701	5.81E-14	0.79
29688	68616	69078	2.87E-48	0.93
29688	91861	92458	5.28E-35	0.95
29688	109269	109801	3.36E-64	0.94
29689	95922	96246	8.39E-08	0.81
29689	100150	100408	2.32E-24	0.71
29689	115082	115992	3.31E-53	0.78
29690	9587	10768	5.91E-31	0.75
29690	28938	29174	2.36E-07	0.84

29690	41733	42755	3.71E-83	0.7
29690	79383	79929	3.29E-17	0.88
29690	111371	111778	2.03E-10	0.84
29690	126942	127167	8.74E-60	0.88
29690	133348	133561	4.11E-09	0.81
29690	153505	153777	1.79E-06	0.82
29690	210505	210826	4.31E-35	0.92
29690	221376	221666	1.10E-15	0.89
29690	238066	238393	2.90E-16	0.83
29690	239237	239694	2.01E-33	0.92
29690	239960	240512	5.74E-84	0.94
29690	240743	240974	5.04E-19	0.91
29690	243445	245040	5.57E-138	0.88
29690	297553	297887	2.48E-22	0.68
29690	310202	310619	3.08E-15	0.84
29690	343778	344637	1.83E-145	0.92
29690	344958	345687	3.70E-13	0.78
29691	3486	4215	5.37E-24	0.82
29691	5703	6250	1.08E-70	0.89
29691	8704	9692	2.62E-111	0.93
29691	13039	13346	3.67E-23	0.96
29691	31193	31487	8.02E-13	0.82
29691	101858	102861	2.43E-47	0.81
29691	105207	106386	6.02E-58	0.87
29691	109842	110081	1.07E-16	0.86
29691	110299	110605	1.68E-17	0.89
29691	121041	122221	8.46E-114	0.75
29691	187250	187570	1.39E-94	0.94
29691	188458	188858	1.97E-26	0.94
29691	189485	190131	4.35E-30	0.8
29691	216062	216757	3.91E-46	0.9
29692	59517	59720	8.04E-06	0.92
29692	75337	75626	1.25E-18	0.86
29692	86698	87060	1.66E-41	0.88
29692	152314	152621	5.38E-31	0.93
29692	164065	164805	7.96E-76	0.92
29692	171029	171686	1.50E-10	0.88
29692	199862	200827	6.91E-61	0.9
29692	202198	202643	7.30E-35	0.92
29692	209180	209869	4.93E-24	0.75
29692	221145	221591	1.93E-33	0.86
29692	222184	222719	1.50E-32	0.85
29692	222951	223284	3.49E-27	0.96
29692	230699	230904	9.02E-18	0.81
29692	231364	231827	1.96E-25	0.73
29693	101191	101504	7.50E-18	0.73
29693	125979	126554	3.03E-50	0.91
29693	127048	127690	1.64E-12	0.61
29693	127946	128592	4.61E-21	0.63
29693	135503	137008	1.14E-77	0.85
29693	137323	137819	6.24E-22	0.76
29693	142351	143051	4.03E-58	0.9
29693	144377	144860	5.14E-50	0.88

29693	146262	147069	1.02E-75	0.85
29693	151487	152965	7.80E-81	0.67
29693	163660	164191	4.60E-45	0.83
29693	164469	164710	6.57E-18	0.76
29693	166365	166903	8.05E-15	0.77
29693	171986	172406	3.13E-55	0.96
29693	177890	178101	6.56E-09	0.8
29693	216069	216464	6.44E-12	0.7
29693	239700	240463	3.24E-46	0.87
29693	330727	332815	5.52E-101	0.88
29693	335122	335398	1.13E-13	0.72
29693	335725	337373	2.01E-96	0.88
29693	368711	371649	9.64E-123	0.89
29693	452267	452788	3.94E-23	0.84
29693	466257	466820	8.90E-31	0.81
29693	486639	487345	4.93E-43	0.82
29693	487988	488628	1.06E-19	0.67
29693	488855	489269	2.04E-21	0.86
29693	489489	490316	4.93E-61	0.77
29693	503920	504385	3.74E-15	0.82
29693	529666	530153	1.86E-27	0.76
29693	533741	534472	2.17E-46	0.85
29693	539477	540323	1.72E-47	0.87
29693	571592	572487	2.51E-30	0.8
29693	572711	575416	2.44E-97	0.85
29693	585457	586104	6.26E-32	0.79
29693	587114	587456	2.70E-26	0.8
29693	597106	597455	3.22E-09	0.62
29693	630081	631020	4.07E-49	0.91
29693	663436	664307	2.72E-69	0.88
29693	664792	665233	1.82E-16	0.85
29693	698287	699555	4.49E-92	0.95
29693	719425	720098	5.18E-29	0.78
29693	726070	726504	2.22E-11	0.82
29693	734969	735948	1.30E-60	0.83
29693	742337	742655	1.87E-21	0.94
29693	742864	743448	3.96E-46	0.91
29693	745838	746591	8.50E-29	0.75
29693	750320	750689	3.72E-18	0.66
29693	767539	768808	1.67E-59	0.78
29693	769867	770175	1.06E-40	0.86
29693	771098	771817	3.06E-94	0.92
29693	781855	782489	8.32E-45	0.84
29693	785080	785372	5.72E-45	0.87
29693	792903	794732	1.72E-44	0.64
29693	810318	810563	6.75E-20	0.86
29693	811125	811582	1.49E-29	0.9
29693	811852	812931	9.62E-39	0.65
29693	818398	818681	2.97E-29	0.86
29693	819831	820140	6.32E-12	0.86
29693	820647	821147	6.12E-22	0.77
29693	822235	823138	2.82E-36	0.78
29693	926989	927481	8.67E-45	0.95

29693	930784	931152	2.16E-44	0.87
29693	931451	931769	7.46E-17	0.77
29693	935931	936892	5.96E-45	0.64
29693	939528	939792	9.66E-28	0.87
29693	940476	941264	4.36E-70	0.92
29693	941560	941960	5.79E-85	0.97
29694	38639	38910	2.48E-05	0.86
29694	43191	43395	1.50E-07	0.85
29694	46272	46536	1.46E-05	0.87
29694	47979	48510	3.12E-23	0.82
29694	48037	48712	2.62E-22	0.81
29694	64429	64689	7.29E-05	0.89
29694	67862	68208	4.39E-05	0.9
29694	74534	74887	1.52E-09	0.89
29694	92173	92481	3.25E-04	0.95
29694	100929	101159	2.58E-08	0.8
29694	102932	103140	9.60E-06	0.79
29694	109698	110256	9.02E-13	0.83
29694	120202	120460	1.37E-05	0.91
29694	122023	122250	1.24E-11	0.84
29694	128934	129216	7.76E-12	0.93
29694	200090	200387	5.92E-10	0.96
29694	246766	247218	5.10E-07	0.9
29694	280845	281194	3.62E-05	0.92
29694	308443	308728	1.59E-05	0.8
29694	320483	320786	7.80E-09	0.84
29694	326385	326638	4.70E-11	0.89
29694	337519	338349	1.99E-17	0.91
29694	359157	359640	2.78E-06	0.69
29694	372406	372813	1.30E-10	0.77
29694	381589	381875	5.06E-05	0.95
29694	390834	391538	3.52E-13	0.84
29694	398266	398686	9.12E-05	1
29694	435895	436702	6.09E-14	0.86
29694	455306	455694	3.74E-09	0.79
29694	459121	459630	2.34E-07	0.94
29694	562967	563233	6.54E-09	0.93
29694	572419	572696	2.37E-06	0.77
29694	587818	588359	1.18E-16	0.89
29695	37315	37841	4.19E-29	0.97
29695	39019	39423	2.81E-40	0.9
29695	45581	45828	8.16E-08	0.88
29695	62934	63509	1.44E-13	0.81
29696	5753	6461	3.75E-36	0.69
29696	6689	7156	6.59E-28	0.78
29696	10191	10979	1.77E-41	0.69
29696	22807	23194	9.87E-21	0.89
29696	23411	24455	7.65E-72	0.93
29696	63169	63407	3.93E-22	0.92
29696	66304	66847	6.51E-19	0.74
29696	89800	90126	1.40E-12	0.79
29696	96074	96794	1.27E-09	0.63
29697	24440	24826	7.37E-41	0.88

29697	163703	164016	6.90E-14	0.87
29697	167506	167864	1.71E-12	0.82
29697	235784	236007	1.67E-13	0.95
29697	287314	287616	1.60E-13	0.96
29697	309684	310068	2.91E-05	0.76
29697	322171	322526	7.08E-09	0.89
29697	335275	335476	9.62E-10	0.93
29697	353890	354779	6.52E-24	0.82
29698	35558	35895	5.25E-06	1
29698	42206	42850	1.02E-16	0.68
29699	1372	1657	8.88E-07	0.85
29699	2258	2536	3.12E-05	0.85
29699	18659	18930	3.58E-04	0.81
29699	36866	37208	1.09E-12	0.85
29699	40704	41051	1.30E-07	0.9
29699	49656	50557	8.78E-20	0.81
29699	71138	71383	4.25E-07	0.82
29699	74526	74803	4.91E-08	0.84
29700	19909	20161	7.71E-14	0.94
29700	45465	46961	5.97E-141	0.68
29700	51128	51676	1.19E-36	0.95
29700	51937	52548	2.35E-31	0.93
29700	53393	53661	3.92E-25	0.94
29700	55744	57458	5.24E-35	0.61
29700	59986	60771	2.08E-23	0.79
29700	64686	65434	1.24E-17	0.82
29700	71216	71709	6.69E-42	0.94
29700	99914	100326	8.20E-55	0.97
29700	101435	102240	4.33E-49	0.95
29700	166212	166695	6.67E-58	0.96
29700	167876	168150	2.33E-24	0.95
29700	211194	211928	1.16E-55	0.89
29700	214944	215376	8.14E-45	0.98
29700	296693	297445	1.54E-23	0.64
29700	372618	372875	1.06E-16	0.95
29700	428910	429380	6.17E-35	0.93
29700	468839	469441	8.63E-54	0.97
29700	469725	470223	3.77E-39	0.84
29700	494281	495132	2.28E-46	0.92
29700	499051	499304	6.00E-29	0.88
29700	505668	505884	2.40E-16	0.88
29700	506963	507743	2.83E-51	0.82
29700	521803	522253	1.22E-49	0.94
29700	523393	523914	2.95E-37	0.94
29700	524416	524683	1.99E-29	0.93
29700	524954	525716	1.18E-92	0.97
29700	533936	534715	1.46E-56	0.96
29700	537429	537631	1.59E-27	0.87
29700	537840	538169	1.27E-18	0.91
29700	547410	549006	1.43E-66	0.93
29700	550690	551543	2.37E-106	0.96
29700	552065	552983	3.00E-80	0.93
29700	553231	553678	8.95E-43	0.96

29700	555075	555917	1.01E-63	0.74
29700	580558	580773	5.82E-05	0.84
29700	602594	603078	5.56E-16	0.86
29700	605316	607177	8.94E-143	0.82
29700	607500	608532	9.41E-109	0.91
29700	611989	612270	2.67E-45	0.91
29700	612654	612955	1.63E-23	0.74
29700	613255	613955	1.06E-33	0.91
29700	614194	614496	5.00E-27	0.84
29700	615421	616204	7.89E-50	0.92
29700	649767	650120	1.29E-31	0.93
29700	652435	653486	1.42E-35	0.79
29700	653800	654670	8.27E-37	0.87
29700	655786	656336	6.29E-23	0.83
29700	657081	658536	4.95E-50	0.73
29701	4342	4730	1.50E-12	0.7
29701	26073	26711	2.27E-41	0.97
29701	35541	36493	1.24E-54	0.85
29701	39875	40409	7.69E-44	0.92
29701	40800	41690	4.86E-39	0.84
29701	55003	56061	1.19E-48	0.89
29701	96177	96893	1.96E-54	0.83
29701	123319	123745	3.52E-26	0.79
29701	138045	138597	1.11E-20	0.79
29701	146176	146444	8.89E-26	0.9
29701	148372	148932	2.86E-56	0.93
29701	155479	156295	5.25E-68	0.87
29701	156503	157142	1.26E-44	0.83
29701	168898	169926	2.47E-32	0.9
29701	174697	175741	1.53E-64	0.82
29701	177570	178449	2.93E-85	0.89
29701	180998	181325	1.15E-14	0.67
29701	186722	187216	8.87E-15	0.83
29701	188072	188441	8.59E-24	0.87
29701	200279	201368	3.19E-42	0.67
29701	242875	243287	2.64E-22	0.89
29702	4366	4772	3.14E-46	0.94
29702	15355	15680	5.58E-24	0.95
29702	22340	22578	4.84E-14	0.93
29702	37291	37944	3.72E-85	0.93
29702	60220	60699	3.56E-45	0.93
29702	101068	101579	1.17E-16	0.88
29702	122278	123042	8.34E-73	0.93
29702	123353	123804	1.52E-18	0.93
29703	20751	21176	2.79E-19	0.8
29703	48084	48328	1.32E-17	0.78
29703	48529	49436	1.74E-35	0.74
29703	62566	63275	9.82E-48	0.93
29703	63703	63919	1.27E-17	0.86
29703	64922	65634	2.23E-17	0.73
29703	65885	66397	7.03E-21	0.84
29703	73571	74085	1.44E-19	0.8
29703	81365	81950	2.27E-47	0.86

29703	124336	124758	8.14E-31	0.76
29703	190544	190910	6.38E-32	0.71
29703	191482	191954	1.47E-08	0.8
29703	192556	193559	1.52E-62	0.81
29703	213603	213835	1.62E-27	0.82
29703	214058	214693	1.60E-35	0.81
29703	215727	217429	1.16E-103	0.89
29703	230551	231081	2.47E-35	0.6
29703	250076	250333	7.01E-07	0.87
29703	252599	253211	1.64E-28	0.88
29703	254030	254781	2.35E-37	0.8
29703	346382	346959	9.26E-64	0.66
29703	353189	353849	2.41E-21	0.83
29703	357954	358526	5.43E-35	0.89
29703	360442	360744	3.70E-15	0.83
29703	363985	364622	1.38E-16	0.83
29703	368425	369384	5.05E-24	0.62
29703	463017	464225	3.08E-30	0.69
29704	5308	5724	8.65E-06	0.97
29704	10192	10651	7.20E-08	0.79
29704	21795	22621	2.13E-08	0.9
29704	84704	84939	1.16E-04	0.91
29704	89778	90023	1.22E-08	1
29704	123668	123982	4.70E-05	0.84
29704	123746	124134	2.89E-05	0.82
29704	175804	176360	8.86E-08	0.86
29704	183269	183507	5.74E-05	0.86
29704	184306	184806	3.37E-09	0.98
29704	215474	215784	4.47E-07	0.87
29704	223348	223894	2.14E-07	0.96
29705	28958	29195	3.38E-17	0.83
29705	35462	35936	1.49E-15	0.83
29705	38440	38648	1.99E-21	0.86
29705	39712	40049	6.52E-41	0.95
29705	43332	44159	1.60E-35	0.93
29705	44513	44843	1.18E-41	0.91
29705	45637	45926	1.04E-07	0.85
29705	62026	62548	4.65E-23	0.92
29705	66384	66843	8.31E-13	0.94
29705	153734	154909	8.76E-78	0.95
29705	181746	182389	4.44E-07	0.72
29705	197816	198208	1.13E-29	0.95
29705	223391	223922	2.86E-08	0.77
29705	228070	228992	6.76E-22	0.96
29705	233522	234084	1.38E-15	0.97
29705	247854	248461	1.87E-55	0.88
29705	274927	275595	1.19E-21	0.8
29705	278951	280761	2.71E-104	0.87
29705	294583	296014	9.28E-84	0.92
29705	344372	344668	5.30E-15	0.83
29705	347257	347663	5.94E-20	0.85
29705	347957	348429	2.20E-16	0.83
29705	428262	428665	6.69E-15	0.82

29705	454589	454891	2.32E-07	0.87
29705	488187	488600	4.64E-37	0.85
29705	490588	490907	3.80E-29	0.95
29705	501156	501666	2.30E-12	0.83
29705	515724	516132	6.92E-07	0.67
29705	546032	546532	1.99E-15	0.74
29705	551771	552284	9.93E-31	0.79
29705	558187	558812	2.06E-47	0.75
29706	89	322	2.44E-17	0.78
29706	59926	60149	3.73E-08	0.78
29706	76018	76493	1.85E-39	0.84
29706	77128	78204	6.00E-69	0.61
29706	81081	81690	5.10E-11	0.6
29706	88631	88848	2.19E-12	0.82
29706	157611	157971	8.57E-15	0.87
29706	194796	195773	3.88E-28	0.8
29706	194896	195782	9.25E-29	0.81
29706	201084	203162	3.54E-133	0.85
29706	217973	218928	2.62E-33	0.87
29706	223724	224001	3.23E-18	0.94
29706	224745	225110	4.10E-16	0.86
29706	233490	234277	2.74E-25	0.81
29706	238653	240213	4.09E-62	0.69
29706	248163	248527	4.09E-10	0.62
29706	255930	256407	7.06E-08	0.6
29706	261958	262215	2.11E-14	0.66
29706	268605	268893	4.00E-18	0.93
29706	271175	271688	2.93E-23	0.95
29706	271929	272399	7.37E-28	0.86
29706	285170	285753	1.00E-43	0.77
29706	286110	286553	2.93E-14	0.77
29706	288298	288730	1.86E-27	0.63
29706	308233	308435	5.42E-42	0.89
29706	308667	309166	1.14E-84	0.84
29706	309437	309995	5.89E-64	0.84
29706	310256	311124	5.74E-46	0.66
29706	312267	312489	6.63E-08	0.77
29706	321663	322306	3.47E-27	0.8
29706	326219	326763	5.66E-39	0.94
29706	329910	330325	2.65E-15	0.67
29706	386639	387284	2.20E-27	0.67
29706	408569	408818	2.40E-10	0.83
29706	424615	425957	1.81E-43	0.84
29706	427421	427733	4.77E-37	0.94
29706	430331	430838	3.73E-51	0.94
29706	439096	439858	2.14E-43	0.86
29706	442670	442944	5.54E-45	0.93
29706	443560	444576	1.06E-71	0.87
29706	448621	449767	1.15E-68	0.9
29706	450051	451347	1.09E-100	0.87
29706	451638	452907	5.42E-81	0.89
29706	455325	457851	6.91E-81	0.75
29706	483185	484238	2.30E-71	0.63

29706	485127	487114	5.84E-76	0.77
29706	512830	513169	4.13E-30	0.92
29706	513403	514142	8.90E-55	0.9
29706	515652	516835	8.86E-39	0.64
29706	525365	527409	5.57E-70	0.8
29706	536384	537392	2.11E-36	0.73
29706	538880	539536	2.84E-27	0.89
29706	554900	555197	1.03E-19	0.9
29706	576840	578287	1.16E-52	0.8
29706	578946	579364	1.29E-86	0.66
29706	582473	582817	3.24E-17	0.88
29706	609234	609480	5.43E-11	0.86
29706	623509	623812	1.85E-12	0.89
29706	632646	633153	6.99E-49	0.92
29706	636513	636907	1.87E-42	0.91
29706	638624	639385	4.53E-37	0.84
29706	644335	645701	7.81E-78	0.69
29706	659347	660047	1.13E-14	0.78
29706	667081	667465	9.71E-20	0.78
29706	675219	675501	5.10E-08	0.85
29706	680528	680753	2.04E-21	0.87
29707	542	1075	3.36E-40	0.88
29707	10020	10526	1.75E-13	0.91
29707	31090	31949	9.83E-44	0.83
29707	38809	39070	5.89E-10	0.78
29707	60248	60901	2.94E-19	0.83
29707	61186	61710	1.59E-24	0.79
29707	62155	63067	9.34E-54	0.87
29707	63291	63845	1.86E-35	0.88
29707	68394	69854	2.36E-45	0.85
29707	74558	75198	3.63E-22	0.9
29707	76995	77368	2.53E-21	0.92
29708	5408	6602	2.25E-81	0.77
29708	27727	28077	6.31E-26	0.88
29708	75983	76493	8.18E-38	0.89
29708	110862	111084	1.46E-30	0.96
29708	112267	114824	9.26E-240	0.95
29708	117500	118442	1.60E-38	0.82
29708	119589	119909	5.33E-28	0.9
29708	147842	148565	2.91E-34	0.61
29708	180282	180759	5.07E-12	0.9
29709	4643	6777	2.75E-93	0.62
29709	7006	7334	1.00E-42	0.79
29709	27378	27968	4.94E-19	0.8
29709	28668	28916	3.25E-12	0.86
29709	29166	29594	1.05E-34	0.87
29709	87453	87671	6.21E-13	0.72
29709	88414	89774	3.68E-114	0.87
29709	90361	90829	1.88E-26	0.79
29709	91049	91267	8.94E-19	0.66
29709	93235	93568	1.03E-26	0.96
29709	112698	113163	4.64E-25	0.81
29709	119194	119430	1.81E-11	0.74

29709	133017	135261	1.19E-171	0.9
29709	135834	137218	1.36E-87	0.85
29709	145579	146469	1.27E-67	0.92
29709	155622	156270	2.43E-22	0.81
29709	155709	156327	2.59E-23	0.83
29709	159199	160856	1.82E-91	0.73
29709	183153	185401	2.88E-93	0.67
29709	194317	194927	1.18E-65	0.94
29709	210590	212605	3.79E-58	0.77
29709	244831	245155	1.13E-16	0.79
29709	265349	266271	2.33E-36	0.75
29709	269893	272379	1.14E-76	0.75
29709	274965	276105	9.69E-41	0.69
29709	301537	301816	1.70E-18	0.75
29709	302734	303977	2.65E-75	0.78
29709	316764	317893	9.12E-64	0.68
29709	318791	319201	6.45E-40	0.81
29709	319889	320511	2.37E-86	0.89
29709	321465	322676	9.54E-59	0.9
29709	338381	339560	4.54E-62	0.83
29709	349888	350918	1.04E-63	0.9
29709	354585	355068	1.37E-20	0.88
29711	17858	18208	1.25E-14	0.81
29711	27249	27893	7.78E-15	0.83
29711	38451	38690	4.43E-12	0.83
29711	75424	75634	1.20E-19	0.7
29711	79514	80196	1.68E-61	0.91
29711	80484	81833	8.05E-77	0.95
29711	86747	87450	2.47E-41	0.96
29711	91398	91940	2.02E-14	0.71
29711	117698	118619	6.11E-19	0.7
29711	140010	141536	7.85E-97	0.9
29711	141940	143021	1.39E-54	0.9
29711	143371	145587	8.64E-104	0.81
29711	162432	162699	4.21E-07	0.68
29711	181558	182530	8.66E-82	0.93
29711	200419	201440	1.39E-72	0.92
29711	201752	202229	3.98E-23	0.87
29711	227645	228166	4.66E-87	0.93
29712	49554	50354	2.65E-36	0.8
29712	55178	55844	1.28E-52	0.79
29712	70204	70585	1.29E-56	0.92
29713	6908	7147	1.15E-24	0.94
29713	25390	27139	6.70E-69	0.71
29713	73733	74809	2.19E-28	0.84
29713	76837	77271	1.47E-10	0.63
29716	5906	6471	7.53E-36	0.94
29716	8734	10873	1.09E-87	0.94
29716	11114	11384	5.76E-19	0.96
29716	12229	12746	7.24E-54	0.95
29716	12980	13893	1.45E-54	0.93
29716	16406	16923	4.96E-29	0.98
29716	34932	35529	2.12E-11	0.81

29716	40893	41164	7.95E-05	0.84
29716	62950	63341	2.53E-22	0.84
29716	87310	87621	6.88E-12	0.87
29716	95393	96319	9.91E-32	0.64
29716	97528	99092	2.57E-124	0.84
29716	99387	99694	6.77E-84	0.9
29716	99951	100917	3.31E-120	0.95
29716	101167	101875	4.73E-27	0.89
29716	102177	103249	6.49E-68	0.9
29716	104225	104918	5.98E-51	0.97
29716	105469	105838	1.27E-27	0.77
29716	112187	112420	4.76E-37	0.9
29716	115029	115518	2.90E-56	0.94
29716	116437	117951	3.82E-106	0.79
29716	168356	168589	1.29E-13	0.9
29717	15	1121	5.36E-34	0.86
29717	5010	5830	6.78E-51	0.89
29717	7773	8563	3.70E-52	0.87
29717	33431	33746	1.50E-20	0.79
29717	64294	65083	5.18E-41	0.78
29717	68552	69725	4.49E-78	0.86
29717	69969	70196	1.67E-21	0.82
29717	70722	71302	4.74E-40	0.94
29717	72383	72823	1.57E-16	0.72
29717	73964	74468	1.65E-22	0.91
29717	75082	75482	1.55E-28	0.9
29717	75689	76028	1.21E-37	0.95
29717	78812	79140	8.42E-07	0.75
29718	3927	4194	4.50E-18	0.93
29718	36623	37328	3.37E-07	0.71
29718	43183	44607	1.09E-86	0.86
29718	50723	53058	8.64E-94	0.89
29718	55710	56352	1.28E-09	0.85
29719	10369	10773	7.54E-51	0.94
29719	12145	12608	1.79E-25	0.98
29719	13033	13671	8.92E-43	0.89
29719	106504	106972	1.31E-21	0.91
29719	126856	127395	1.65E-15	0.91
29719	129744	130716	9.91E-27	0.76
29719	136828	137250	1.26E-12	0.79
29719	152377	152881	5.55E-17	0.84
29719	164313	165264	4.23E-36	0.8
29719	165932	166902	2.01E-20	0.79
29719	168053	168331	4.33E-26	0.92
29719	169592	170430	1.77E-20	0.81
29719	189896	190343	2.74E-20	0.79
29719	232193	232414	2.71E-05	0.79
29719	243944	244312	6.88E-11	0.75
29719	246102	246341	1.78E-08	0.78
29720	44801	45691	1.40E-93	0.94
29720	46614	47161	1.04E-16	0.65
29720	47579	47972	1.18E-22	0.64
29720	48520	48917	8.13E-32	0.79

29721	8911	9413	1.00E-10	0.98
29721	123897	124448	9.00E-06	0.93
29721	143550	143966	5.45E-08	0.88
29721	154951	155640	1.63E-26	0.93
29721	174457	174915	1.77E-07	0.81
29721	181757	182172	7.24E-14	0.85
29721	219189	219754	1.36E-08	0.83
29721	273097	273372	5.23E-09	0.91
29721	310460	310833	8.58E-10	0.81
29721	325405	326175	9.64E-24	0.87
29721	355996	356345	7.14E-16	0.85
29722	317190	317405	3.05E-04	0.88
29722	335761	336114	8.37E-27	0.93
29724	154	411	4.47E-28	0.77
29724	21909	22229	3.15E-57	0.96
29724	22937	23770	2.53E-115	0.92
29724	36613	37932	4.71E-41	0.75
29724	52027	52904	8.01E-48	0.8
29724	61014	61459	1.58E-05	0.85
29724	83567	84037	6.69E-06	0.95
29724	95594	95821	4.18E-18	0.81
29724	138851	139576	1.30E-30	0.86
29724	150351	151165	2.68E-11	0.87
29724	151154	151377	1.11E-08	0.92
29724	180304	181048	1.17E-64	0.85
29724	181615	181959	1.62E-11	0.79
29724	192273	192867	3.64E-29	0.86
29724	194025	194337	9.23E-57	0.93
29724	226604	226823	8.75E-39	0.93
29724	286832	287057	7.75E-50	0.94
29724	353239	353799	4.62E-24	0.67
29724	354050	354896	8.36E-117	0.96
29724	409493	409793	5.88E-09	0.76
29724	419279	420020	1.29E-25	0.8
29724	421775	422255	1.81E-29	0.79
29724	422664	423091	3.88E-53	0.94
29724	423466	423732	3.11E-27	0.9
29724	424823	425168	6.07E-30	0.86
29724	425441	425916	8.75E-16	0.79
29724	427803	428161	1.68E-38	0.94
29724	428751	429067	6.62E-25	0.94
29724	448330	448694	2.91E-22	0.83
29724	450069	450497	1.27E-15	0.82
29724	465683	466146	1.65E-22	0.86
29724	477701	477940	1.74E-15	0.83
29724	479526	479975	4.39E-56	0.85
29724	501115	502405	8.57E-59	0.62
29724	503481	503764	5.22E-25	0.9
29724	526210	526491	1.16E-17	0.93
29724	540581	541429	3.53E-41	0.79
29724	564570	564968	6.29E-24	0.64
29724	570931	571321	1.05E-26	0.81
29724	590688	591054	8.37E-18	0.66

29724	592690	592908	3.09E-24	0.85
29724	593198	594051	6.89E-56	0.96
29724	595504	596765	1.23E-34	0.82
29724	671057	671829	2.01E-70	0.95
29724	685182	685535	1.28E-11	0.78
29724	687961	689749	6.59E-121	0.83
29724	731072	731951	6.67E-48	0.89
29724	732184	732528	1.13E-14	0.76
29724	744102	744323	6.49E-16	0.91
29725	16664	17432	5.98E-51	0.74
29725	73209	73665	2.35E-16	0.78
29725	130272	130821	2.16E-07	0.88
29725	156688	156888	2.40E-04	0.86
29725	161687	162065	2.56E-20	0.75
29725	181654	182793	8.86E-45	0.87
29725	236599	236890	5.90E-09	0.9
29725	295350	295787	1.57E-75	0.98
29725	303055	303687	3.18E-22	0.82
29725	334701	334947	8.45E-11	0.81
29725	358270	358494	1.07E-05	0.9
29725	424309	424702	5.17E-13	0.91
29725	469912	470193	3.12E-09	0.93
29725	492990	493266	3.47E-07	0.86
29725	566776	567391	1.71E-09	0.9
29725	571193	571768	2.31E-14	0.92
29726	14427	14766	1.61E-26	0.82
29726	14992	16713	1.04E-95	0.71
29726	25444	25898	1.88E-16	0.79
29726	76152	76481	1.39E-08	0.83
29726	116844	117511	1.85E-62	0.84
29726	124025	124609	2.40E-31	0.88
29726	125061	125328	4.01E-07	0.96
29726	138030	138491	2.65E-17	0.66
29726	139618	140108	1.38E-21	0.81
29726	148732	150607	8.69E-121	0.81
29726	204700	205432	2.93E-23	0.78
29726	225848	226158	4.68E-29	0.8
29726	242759	243431	4.38E-89	0.82
29726	252230	252622	1.50E-23	0.69
29726	269228	271752	2.07E-114	0.78
29726	276221	276781	7.38E-16	0.68
29726	278945	279301	4.73E-17	0.64
29726	284665	285192	4.24E-37	0.87
29726	295159	296114	1.06E-59	0.93
29726	333362	333847	7.96E-36	0.9
29726	334089	334543	1.04E-24	0.79
29726	346633	348484	1.45E-60	0.75
29726	356779	357169	2.26E-18	0.9
29726	382067	382410	1.28E-57	0.89
29726	383076	383932	2.77E-49	0.69
29726	416592	418098	5.61E-67	0.8
29726	418388	418754	2.37E-38	0.72
29726	433661	434705	4.08E-40	0.82

29726	447956	448220	2.18E-17	0.76
29726	458929	459405	8.72E-46	0.88
29726	459667	460218	1.07E-67	0.89
29726	486066	486267	3.93E-07	0.73
29726	487936	488559	2.35E-32	0.82
29726	497109	498253	3.14E-92	0.93
29726	498816	499109	1.91E-19	0.85
29726	517882	518218	6.99E-31	0.93
29726	522026	522599	4.16E-26	0.84
29726	523237	523613	5.30E-46	0.84
29726	523852	524690	3.98E-41	0.83
29726	527423	527696	2.75E-14	0.79
29726	532363	532946	5.88E-33	0.77
29726	534393	535466	5.42E-111	0.93
29726	535792	536032	2.82E-27	0.92
29726	543453	543914	7.92E-15	0.76
29726	576944	577307	4.91E-16	0.89
29726	593798	594059	1.12E-17	0.79
29726	599893	600545	1.95E-55	0.86
29726	642252	642863	1.05E-56	0.79
29726	661544	662364	2.64E-34	0.82
29726	665493	666547	1.39E-55	0.7
29726	702847	703822	2.96E-43	0.78
29726	705878	706328	2.21E-34	0.93
29726	728166	728460	2.10E-39	0.97
29726	750357	752685	4.37E-224	0.86
29726	753405	753693	1.78E-31	0.87
29726	754107	754511	4.41E-65	0.92
29726	783259	783840	1.07E-34	0.76
29726	784475	784721	1.37E-30	0.93
29726	784932	785392	9.28E-27	0.87
29726	786192	787231	5.72E-36	0.81
29726	787559	788345	1.34E-39	0.81
29726	855537	857301	1.79E-67	0.71
29726	884032	884606	1.09E-19	0.78
29726	889205	889575	9.83E-16	0.6
29726	891956	892409	1.35E-30	0.83
29726	906022	906955	2.51E-55	0.81
29726	910547	911532	2.55E-72	0.88
29726	911819	912724	7.63E-37	0.8
29726	917999	918542	9.89E-20	0.8
29726	918002	918614	3.23E-19	0.76
29726	922844	923327	1.34E-27	0.82
29726	923635	924115	2.96E-25	0.79
29726	927138	927992	4.23E-29	0.86
29726	935120	935830	1.45E-69	0.93
29726	942782	945766	1.81E-244	0.79
29726	950930	952742	4.96E-75	0.67
29726	978110	978540	1.40E-22	0.62
29726	1017108	1018705	4.10E-91	0.88
29726	1018913	1019199	2.44E-14	0.96
29726	1047234	1047457	8.13E-34	0.92
29726	1060668	1061238	1.79E-43	0.85

29726	1061710	1062926	1.16E-47	0.82
29726	1091490	1092374	4.83E-29	0.62
29726	1099021	1100833	4.64E-104	0.85
29726	1109935	1110461	5.56E-18	0.74
29726	1111750	1112811	7.74E-34	0.7
29726	1123840	1124827	5.94E-37	0.72
29726	1186781	1187205	2.91E-45	0.94
29726	1192528	1192840	3.30E-45	0.72
29726	1206960	1207289	2.84E-21	0.84
29726	1216002	1216425	1.45E-32	0.79
29726	1216705	1217061	3.18E-07	0.76
29726	1228502	1229270	9.67E-29	0.85
29727	5640	5842	3.89E-21	0.92
29727	24096	24453	3.54E-23	0.68
29727	43041	43507	1.20E-11	0.81
29727	110806	111987	9.18E-86	0.87
29727	113121	113438	1.48E-24	0.86
29727	120387	120850	5.39E-61	0.72
29727	121118	121415	1.21E-12	0.6
29727	141046	141257	9.95E-21	0.79
29727	141491	141712	6.06E-36	0.91
29727	149765	150378	1.29E-26	0.9
29727	150656	151055	3.66E-25	0.78
29727	159648	160427	2.73E-38	0.87
29727	170822	173247	9.26E-239	0.7
29727	201155	201589	1.59E-23	0.91
29727	202014	202599	3.33E-29	0.86
29727	203186	204063	1.99E-68	0.83
29727	204686	205112	1.58E-25	0.74
29727	213631	214141	1.35E-25	0.85
29727	214594	214960	2.71E-34	0.92
29727	215942	216366	1.91E-14	0.83
29727	217490	217863	2.15E-17	0.79
29727	217554	217873	5.44E-18	0.79
29727	219278	219547	8.97E-16	0.9
29728	15767	17500	3.67E-68	0.82
29728	20492	20736	1.20E-50	0.83
29728	20948	21174	9.04E-48	0.93
29728	26450	26742	1.73E-28	0.79
29728	38806	40493	1.78E-170	0.75
29728	41177	41452	6.74E-16	0.67
29728	42270	43893	3.03E-146	0.73
29728	55055	55423	2.19E-10	0.82
29728	61659	62070	2.94E-28	0.84
29728	91402	91969	5.76E-50	0.96
29728	98569	99328	1.03E-20	0.8
29728	108155	108487	2.34E-20	0.71
29728	128365	129001	1.00E-17	0.76
29728	152181	152491	9.02E-30	0.82
29728	154346	154604	2.31E-18	0.74
29728	159756	161190	2.94E-70	0.89
29728	163225	164669	4.03E-52	0.76
29728	171506	171934	2.80E-10	0.81

29728	176160	176696	2.71E-12	0.6
29728	178183	178708	5.71E-32	0.75
29728	180343	180772	2.55E-22	0.86
29728	185856	186176	5.02E-36	0.91
29728	187942	188299	2.83E-35	0.82
29728	188537	188739	1.10E-47	0.93
29728	236777	237610	2.90E-36	0.75
29728	248958	250487	1.34E-41	0.83
29728	258933	259308	5.89E-14	0.78
29728	268255	268986	1.48E-50	0.69
29728	278543	278752	1.13E-07	0.84
29728	285223	285570	1.11E-16	0.95
29728	288077	289092	4.41E-48	0.83
29728	293002	293586	7.18E-12	0.78
29728	323660	324174	6.13E-06	0.69
29728	325783	326411	8.36E-22	0.8
29728	330789	331228	5.33E-17	0.74
29728	331432	331924	2.61E-11	0.76
29728	334111	334598	4.62E-08	0.79
29729	23519	23827	2.30E-22	0.76
29729	24073	25526	4.33E-75	0.79
29729	25967	26183	4.10E-44	0.9
29729	34569	35109	6.62E-28	0.74
29729	37231	37482	9.87E-33	0.9
29729	48908	49308	4.07E-11	0.7
29729	67844	68722	9.75E-43	0.88
29729	69320	69866	8.07E-47	0.9
29729	100233	100921	3.39E-20	0.8
29729	115511	116071	4.27E-30	0.91
29729	135756	136139	6.31E-22	0.9
29729	138839	139896	6.53E-48	0.85
29729	140416	141026	1.68E-23	0.77
29729	141250	141996	6.67E-58	0.85
29729	142353	142621	2.44E-14	0.79
29729	200357	200762	2.51E-13	0.78
29729	201797	202159	2.47E-12	0.79
29729	204702	204989	2.15E-15	0.64
29729	205817	206291	2.29E-15	0.82
29729	206600	207208	5.21E-47	0.95
29729	210875	211200	2.62E-06	0.81
29729	214915	215301	1.16E-23	0.85
29729	217199	217738	1.94E-52	0.88
29729	222808	223784	3.71E-202	0.72
29729	223993	224584	7.13E-94	0.88
29729	233866	234749	3.06E-22	0.86
29729	293094	293349	2.87E-15	0.77
29729	294621	295262	2.58E-40	0.93
29729	305908	306220	6.17E-16	0.74
29729	331677	332761	3.88E-42	0.78
29729	339219	340022	7.61E-50	0.81
29729	396795	397803	1.04E-54	0.79
29729	400537	401007	1.33E-21	0.73
29729	401211	401565	4.68E-23	0.82

29729	408072	408437	8.60E-21	0.79
29729	411795	413084	1.66E-85	0.91
29729	414176	414505	1.15E-13	0.71
29729	438626	439227	2.83E-23	0.7
29729	476357	476583	1.46E-33	0.84
29729	477093	479171	3.65E-136	0.74
29729	483311	484089	7.85E-46	0.92
29729	484401	484717	4.53E-20	0.88
29729	484956	486127	1.40E-32	0.76
29729	487853	488230	1.53E-40	0.86
29729	514777	515473	1.53E-39	0.87
29729	532813	533049	5.74E-18	0.85
29729	535275	536134	1.42E-38	0.84
29729	543134	543538	5.11E-17	0.62
29729	554321	554907	1.15E-14	0.62
29729	559784	560078	1.41E-07	0.74
29729	567572	567774	3.46E-10	0.64
29729	575157	575831	2.93E-21	0.88
29729	588728	589858	7.99E-54	0.84
29729	600872	601544	5.81E-25	0.87
29729	623990	624586	2.95E-40	0.9
29729	631588	632167	7.00E-09	0.8
29729	643093	643459	1.07E-67	0.82
29729	647127	647695	7.99E-34	0.73
29729	653151	654357	3.50E-73	0.81
29729	656734	657088	6.69E-19	0.84
29729	671553	671855	2.14E-37	0.92
29729	688213	688853	2.71E-22	0.81
29729	708143	709165	5.25E-64	0.64
29729	714669	715297	1.50E-68	0.85
29729	727795	728151	6.14E-24	0.79
29729	732424	733876	2.99E-70	0.85
29729	741378	742417	1.58E-35	0.84
29730	44618	44975	1.55E-04	0.9
29731	65631	66195	2.29E-06	0.84
29731	96106	96539	1.28E-04	0.88
29731	117915	118285	1.27E-13	0.8
29731	118063	118402	3.51E-13	0.81
29732	23545	24184	1.94E-23	0.8
29732	23853	24235	1.25E-20	0.82
29732	35649	36164	3.55E-30	0.84
29732	60757	61373	6.64E-32	0.66
29732	61901	62652	3.35E-41	0.92
29732	75018	75481	9.37E-30	0.78
29732	86342	86575	1.78E-33	0.9
29732	86779	87090	3.50E-29	0.76
29732	87325	87952	9.37E-41	0.94
29732	105230	106201	7.36E-33	0.83
29732	106836	107661	1.09E-30	0.85
29732	108104	108454	4.29E-21	0.85
29732	108689	111155	5.20E-77	0.79
29733	2655	3106	6.22E-62	0.95
29733	23304	23514	1.80E-19	0.95

29733	24873	27120	2.44E-95	0.93
29733	53825	54379	5.40E-49	0.87
29733	63420	63650	3.76E-10	0.76
29733	64467	65089	1.19E-14	0.8
29733	76973	77450	1.00E-21	0.92
29733	79450	79800	5.01E-24	0.88
29733	107673	107873	5.06E-18	0.83
29733	115364	116728	2.49E-70	0.87
29733	122754	122992	1.25E-53	0.94
29733	136136	136409	2.39E-19	0.93
29733	145978	146539	3.34E-11	0.93
29733	188367	189060	6.12E-62	0.93
29733	189323	189559	8.66E-30	0.84
29733	190998	191491	1.52E-32	0.92
29733	193125	193577	2.20E-44	0.93
29733	194425	195058	9.51E-47	0.86
29733	196141	196435	5.57E-19	0.88
29733	196730	197444	1.39E-54	0.87
29733	204970	205598	1.41E-43	0.86
29733	260270	260795	1.21E-11	0.77
29733	261315	261766	1.26E-26	0.86
29733	262541	263496	3.31E-42	0.86
29733	270905	271839	3.56E-39	0.75
29733	275315	275669	3.59E-46	0.61
29733	276083	276746	2.29E-70	0.94
29733	276964	277249	1.99E-25	0.89
29733	281612	281832	1.86E-06	0.97
29733	289455	290196	6.36E-20	0.66
29733	290811	291200	2.30E-13	0.87
29733	347745	348293	4.50E-09	0.79
29733	348541	349113	2.43E-26	0.89
29733	367744	368735	2.96E-35	0.84
29733	369014	369400	3.83E-20	0.89
29733	402472	402848	1.38E-37	0.97
29733	431370	431763	6.48E-29	0.81
29733	432678	433686	1.19E-37	0.89
29733	434313	434778	5.07E-20	0.8
29733	483541	484366	3.44E-30	0.88
29733	511553	511954	3.63E-07	0.8
29733	522122	523251	5.16E-49	0.85
29733	523542	523913	1.84E-15	0.8
29733	569016	569628	3.66E-09	0.71
29733	578245	578741	4.01E-25	0.83
29733	578760	579192	9.81E-13	0.79
29733	580077	581069	1.02E-61	0.89
29733	620860	621496	8.92E-10	0.6
29733	629903	630110	1.79E-13	0.9
29733	634350	634765	2.93E-61	0.97
29734	20747	21117	3.00E-34	0.96
29734	37512	37747	1.01E-09	0.98
29734	61353	61697	5.13E-06	0.86
29734	62984	63193	1.28E-05	0.91
29734	75281	75968	1.60E-12	0.95

29734	116401	116769	7.39E-22	0.96
29734	127861	128488	5.10E-20	0.79
29734	152061	152807	2.79E-19	0.84
29734	178026	178476	4.66E-33	0.89
29734	203173	204190	4.64E-18	0.82
29734	204190	206263	1.94E-60	0.61
29734	240909	241249	3.69E-10	0.95
29734	247592	247866	9.38E-36	0.96
29734	250199	250561	1.14E-07	0.89
29734	288091	288860	3.05E-108	0.93
29734	289504	289841	3.29E-42	0.94
29734	293895	294226	2.06E-19	0.87
29734	295015	295381	2.36E-20	0.72
29734	326375	326730	1.19E-03	1
29735	6220	6520	7.79E-06	0.96
29736	40895	42476	2.77E-59	0.73
29736	82448	83172	5.12E-21	0.82
29736	119802	120141	1.50E-29	0.85
29736	120365	121531	8.03E-66	0.82
29736	155093	155463	2.79E-32	0.93
29736	156306	156606	7.82E-25	0.86
29736	190784	191231	9.54E-25	0.77
29736	198390	198926	3.85E-70	0.82
29736	199293	199503	1.04E-37	0.97
29736	200008	200832	1.17E-36	0.88
29736	212257	212514	1.28E-09	0.77
29736	229600	230203	8.19E-45	0.86
29736	230751	231194	7.30E-28	0.92
29736	233080	233489	4.20E-14	0.8
29736	242650	243223	2.95E-27	0.91
29736	248391	249117	6.26E-30	0.89
29736	249550	249829	1.67E-27	0.94
29736	258160	259350	6.87E-43	0.68
29736	263019	263865	7.31E-55	0.75
29736	264077	264341	1.13E-21	0.68
29736	267972	268896	4.10E-35	0.82
29736	273151	273564	5.26E-32	0.78
29736	277310	278718	1.85E-48	0.85
29736	284760	285417	8.73E-53	0.77
29736	287168	287410	1.82E-20	0.6
29736	350640	351517	5.44E-37	0.79
29736	354178	354612	7.99E-42	0.95
29736	356242	357545	1.98E-75	0.85
29736	384861	385912	4.03E-50	0.87
29736	398678	399076	1.04E-22	0.84
29736	400558	402548	5.13E-78	0.8
29736	428222	428579	6.08E-22	0.64
29736	443104	443442	3.85E-08	0.95
29736	466074	466367	1.10E-15	0.66
29736	467936	468801	6.00E-35	0.81
29736	496032	496706	5.38E-28	0.84
29736	498760	499066	6.95E-23	0.75
29736	521117	521799	2.51E-41	0.7

29736	523422	523874	5.41E-32	0.86
29736	527507	528529	8.75E-38	0.71
29736	528731	529049	3.08E-20	0.9
29736	531693	532251	1.80E-30	0.88
29736	534020	534342	4.27E-24	0.94
29736	538139	538372	9.60E-27	0.95
29736	538725	539115	1.28E-29	0.89
29736	586210	586514	9.63E-15	0.84
29736	634684	635915	3.94E-84	0.81
29736	652834	653112	7.76E-13	0.8
29736	656786	657837	4.39E-42	0.85
29736	661438	662769	7.91E-78	0.65
29736	666947	667402	5.99E-25	0.81
29736	697444	698038	6.00E-50	0.79
29736	699188	699433	2.56E-61	0.9
29736	714083	714752	1.69E-54	0.9
29736	723933	724813	3.21E-66	0.8
29736	764702	765018	4.27E-19	0.7
29736	769322	769592	5.98E-11	0.72
29736	792689	793092	1.54E-23	0.93
29736	793583	794776	7.52E-24	0.65
29736	809871	812034	1.76E-148	0.88
29736	812488	813290	1.88E-39	0.91
29736	834073	836244	1.42E-234	0.85
29736	841275	841797	8.01E-30	0.8
29737	18646	19017	1.97E-11	0.69
29737	27769	28362	2.00E-15	0.8
29737	49063	49740	3.49E-31	0.88
29737	50742	51089	1.08E-31	0.89
29737	53449	53910	8.46E-17	0.91
29737	57454	58104	6.08E-32	0.74
29737	58441	59408	2.94E-52	0.83
29737	71222	71489	1.25E-20	0.9
29737	72283	72646	4.37E-41	0.74
29737	111686	112043	3.20E-19	0.74
29737	112670	113040	1.98E-38	0.86
29737	113281	113661	1.99E-08	0.69
29737	118610	119222	5.51E-47	0.91
29737	126244	126788	2.47E-70	0.88
29737	154263	154851	6.78E-47	0.87
29737	164212	164486	1.60E-30	0.82
29737	166594	166835	3.68E-20	0.7
29737	189601	190003	1.17E-28	0.89
29737	201713	202041	9.13E-24	0.88
29737	212175	212709	6.31E-25	0.79
29737	213321	213859	4.01E-55	0.91
29737	237137	237843	9.95E-41	0.71
29737	266003	266494	1.77E-07	0.96
29737	270782	271225	1.09E-10	0.96
29737	272518	272884	1.53E-13	0.83
29737	272601	273121	2.38E-16	0.82
29737	272836	273185	6.09E-13	0.79
29737	282237	282836	6.04E-31	0.85

29737	283454	284310	6.37E-27	0.84
29737	314404	314834	1.40E-56	0.73
29737	320585	323391	3.67E-100	0.64
29737	332411	332705	7.33E-21	0.82
29737	333783	334531	8.56E-40	0.91
29737	366822	367154	2.58E-26	0.96
29737	367396	367966	1.32E-92	0.9
29737	369688	369950	2.59E-15	0.88
29737	370562	370818	1.47E-13	0.86
29737	375225	376322	1.16E-103	0.88
29737	395896	396181	3.25E-09	0.63
29737	397368	397904	1.34E-13	0.84
29737	403514	404034	1.08E-37	0.88
29737	407232	407473	2.37E-18	0.9
29737	413502	413951	7.95E-29	0.66
29737	432806	433172	1.76E-19	0.9
29737	448506	449229	4.42E-48	0.78
29737	451135	451425	1.26E-20	0.69
29737	476501	477184	1.50E-20	0.64
29737	488537	488993	5.67E-29	0.77
29737	489414	491066	1.06E-82	0.79
29737	497557	498003	1.73E-10	0.89
29737	502196	502651	4.41E-04	0.89
29737	520761	521504	4.07E-56	0.73
29737	521968	522530	5.28E-30	0.65
29737	522734	523039	4.75E-25	0.68
29737	532606	533162	6.42E-25	0.84
29737	533442	533825	8.96E-38	0.9
29737	545891	546529	7.27E-07	0.76
29737	547140	547379	2.12E-17	0.84
29738	13172	13464	3.47E-21	0.86
29738	15180	15781	7.76E-47	0.89
29738	23364	23564	1.63E-28	0.96
29738	27975	28586	4.10E-56	0.91
29738	29369	30008	2.24E-29	0.74
29738	37270	37669	2.27E-39	0.73
29738	42048	42539	1.20E-46	0.75
29738	95853	96759	4.92E-53	0.86
29738	97009	97225	4.54E-11	0.78
29738	97330	97699	1.52E-23	0.8
29738	102688	103533	2.84E-37	0.88
29738	103746	104305	7.64E-36	0.92
29738	187826	188341	2.11E-24	0.85
29738	229018	230501	5.68E-133	0.87
29738	230915	231467	2.38E-25	0.92
29738	231692	232568	2.12E-38	0.87
29738	242224	242736	4.06E-32	0.87
29738	242945	243807	1.54E-40	0.84
29738	284462	284903	9.19E-20	0.84
29738	285745	286101	1.23E-24	0.88
29738	380549	381521	6.43E-70	0.8
29738	381783	382082	2.73E-19	0.82
29738	385376	386205	1.56E-56	0.79

29738	426800	427125	1.38E-05	0.92
29738	429469	430033	9.66E-07	0.72
29738	440852	441456	5.87E-32	0.86
29738	465697	466077	5.22E-24	0.65
29738	469568	469784	2.21E-12	0.77
29738	471255	471977	4.57E-25	0.83
29739	38931	39464	1.73E-41	0.68
29739	39724	40123	1.08E-58	0.9
29739	40777	41040	3.66E-37	0.81
29739	47040	48343	1.09E-68	0.78
29739	64586	64911	1.08E-23	0.87
29739	67158	67835	5.52E-23	0.79
29739	119996	120395	3.16E-30	0.82
29739	121680	122418	2.78E-39	0.84
29739	122687	123657	1.33E-27	0.77
29739	129632	131333	1.50E-181	0.8
29739	167717	168196	1.62E-24	0.8
29739	168738	169089	2.52E-10	0.74
29739	171590	172334	4.39E-29	0.74
29739	181483	182128	2.39E-30	0.92
29739	182412	182849	1.20E-25	0.82
29739	229873	230412	7.89E-15	0.7
29739	234212	235318	4.28E-77	0.87
29739	236043	237356	5.04E-55	0.73
29739	297515	298009	2.19E-17	0.76
29739	311035	312288	1.56E-80	0.68
29739	312514	312975	1.14E-26	0.85
29739	315519	315854	9.17E-28	0.87
29739	330629	330905	4.13E-09	0.88
29739	387064	387372	5.65E-10	0.72
29739	387815	388455	3.41E-37	0.88
29739	392570	393661	1.61E-80	0.9
29739	426219	426614	7.46E-13	0.64
29739	432124	434186	1.93E-68	0.82
29739	434591	434908	1.14E-17	0.86
29739	480491	481413	6.12E-45	0.81
29739	481717	482242	2.63E-37	0.88
29739	486324	486558	8.09E-29	0.89
29739	487968	488752	1.15E-51	0.83
29739	489750	490057	6.83E-19	0.84
29739	490949	491282	1.81E-09	0.81
29739	492980	494461	2.77E-105	0.81
29739	495278	495671	3.28E-33	0.85
29739	503286	503811	3.53E-28	0.91
29739	504027	504479	1.75E-39	0.95
29739	583032	583651	1.25E-25	0.85
29739	588799	589313	6.56E-25	0.87
29739	598760	599484	5.91E-25	0.85
29739	607525	608040	2.71E-41	0.9
29739	616404	616957	3.81E-23	0.8
29739	625389	626871	3.41E-57	0.8
29739	645320	645928	4.89E-21	0.74
29739	715079	716961	4.78E-92	0.86

29739	721307	721959	7.33E-29	0.83
29739	725861	726264	6.91E-48	0.93
29739	736702	738425	1.68E-101	0.87
29739	740882	741166	4.28E-38	0.93
29739	746076	747167	4.86E-57	0.71
29739	748897	749159	1.33E-07	0.69
29739	758170	758638	3.16E-19	0.79
29739	758947	760138	4.88E-54	0.85
29739	763103	764510	3.86E-103	0.89
29739	764741	765540	1.90E-61	0.8
29739	778537	778966	1.72E-15	0.78
29739	779976	780225	1.63E-28	0.89
29739	788563	790927	2.94E-83	0.82
29739	791151	792015	1.40E-77	0.92
29739	818604	818851	2.76E-14	0.61
29739	825476	825891	1.78E-30	0.88
29739	826157	826585	2.64E-26	0.84
29739	827077	828463	2.56E-77	0.93
29739	896948	897766	2.37E-31	0.83
29739	940531	941652	7.11E-37	0.7
29739	981946	982633	8.10E-31	0.9
29739	1029486	1030037	2.26E-45	0.91
29739	1030274	1030524	2.67E-19	0.87
29739	1030791	1031304	1.97E-22	0.81
29739	1047400	1048983	5.42E-92	0.79
29739	1049232	1049616	3.20E-18	0.65
29739	1049825	1050527	1.56E-20	0.75
29739	1072914	1073930	2.08E-90	0.9
29739	1091459	1091927	9.76E-47	0.91
29739	1092272	1092617	7.68E-28	0.91
29739	1093090	1093576	2.62E-26	0.89
29739	1094340	1094800	2.12E-27	0.9
29739	1099995	1100270	2.41E-20	0.8
29739	1166415	1166705	7.45E-39	0.86
29739	1204273	1204712	2.96E-69	0.93
29739	1207054	1207880	2.85E-68	0.86
29739	1210512	1211057	1.68E-22	0.75
29739	1238122	1239051	3.06E-43	0.72
29739	1245138	1247624	6.59E-164	0.86
29739	1254671	1255194	5.54E-14	0.7
29739	1267215	1268245	1.18E-90	0.81
29739	1277822	1278293	1.84E-20	0.8
29739	1280704	1281318	1.73E-16	0.86
29739	1292775	1293326	1.26E-39	0.83
29739	1294509	1294915	5.93E-13	0.8
29739	1299819	1300528	1.13E-46	0.91
29739	1300871	1301579	1.91E-34	0.91
29740	16154	16578	3.52E-13	0.83
29740	21214	21883	2.22E-24	0.69
29740	51146	51439	4.43E-06	0.65
29740	63976	64771	3.40E-36	0.86
29740	77069	78083	2.68E-46	0.74
29740	81571	81970	1.99E-22	0.65

29740	100282	100875	7.59E-62	0.78
29740	103010	104013	6.31E-109	0.79
29740	104874	105768	7.61E-116	0.88
29740	112205	112451	1.07E-45	0.76
29740	156992	157628	3.34E-24	0.84
29740	160344	160584	1.88E-19	0.9
29740	197259	197629	7.09E-37	0.83
29740	199113	199829	1.26E-39	0.83
29740	203398	204200	8.53E-59	0.9
29740	212942	213581	5.43E-41	0.96
29740	221032	221973	1.34E-46	0.85
29741	36775	36982	2.67E-17	0.92
29742	18793	19655	5.01E-62	0.83
29742	37070	37346	1.14E-16	0.98
29742	45883	46247	1.02E-56	0.97
29742	55535	56011	3.86E-18	0.8
29742	118698	119640	2.48E-54	0.89
29742	156224	156955	2.94E-40	0.83
29742	203753	204072	2.49E-16	0.9
29742	262159	262545	1.17E-06	0.74
29742	276386	276753	1.41E-10	0.67
29742	310661	311143	7.86E-23	0.82
29742	315468	315752	2.35E-15	0.65
29742	315980	316451	1.32E-28	0.8
29742	320175	320510	3.50E-22	0.84
29742	324927	325139	1.12E-24	0.86
29742	350473	350692	2.95E-18	0.83
29742	365526	366097	4.58E-30	0.88
29742	367179	368167	2.23E-54	0.89
29742	370842	371648	5.20E-67	0.86
29742	372315	373450	1.59E-45	0.67
29742	383142	383504	3.80E-91	0.86
29742	395034	395327	8.46E-55	0.97
29742	412400	412803	2.85E-15	0.73
29742	415929	416312	1.14E-40	0.9
29742	417610	419083	2.22E-84	0.71
29742	448812	449135	2.30E-12	0.83
29742	472834	473094	9.86E-40	0.94
29742	480888	481622	2.11E-34	0.7
29742	481176	482103	1.96E-64	0.85
29742	482407	482635	1.10E-14	0.9
29742	483466	484121	2.45E-32	0.81
29742	484810	485240	1.07E-18	0.83
29742	485961	486196	3.35E-16	0.88
29742	521382	522403	8.75E-68	0.79
29743	11179	12246	2.79E-60	0.84
29743	14000	14899	4.84E-57	0.96
29743	26492	26938	3.00E-39	0.84
29743	109846	110472	7.62E-28	0.74
29743	112646	113208	2.96E-39	0.84
29743	116718	118495	4.49E-83	0.87
29743	119435	119737	3.82E-17	0.82
29743	167212	167556	2.16E-23	0.93

29743	171673	172390	3.26E-64	0.87
29743	184485	185038	4.15E-35	0.86
29743	188199	188675	3.31E-32	0.82
29743	190253	191012	2.31E-36	0.8
29743	191620	192169	8.92E-15	0.84
29743	195032	195263	4.30E-28	0.91
29743	200661	201056	8.97E-11	0.74
29743	200682	201085	9.03E-12	0.81
29743	205998	206371	6.02E-14	0.95
29743	273255	273515	7.75E-04	0.83
29744	7777	8615	5.74E-40	0.9
29744	24913	25848	3.70E-18	0.67
29744	33359	33996	1.08E-35	0.83
29744	43257	43724	4.57E-20	0.93
29744	49791	50084	5.45E-20	0.82
29744	53959	54671	7.05E-24	0.83
29744	55245	55608	9.95E-10	0.81
29744	55294	55612	4.33E-09	0.83
29744	56291	56577	6.18E-08	0.88
29744	67990	68371	3.16E-09	0.98
29744	75773	76007	2.09E-29	0.9
29744	80820	81085	3.40E-06	1
29744	91097	91509	6.55E-07	0.79
29745	14633	14957	8.18E-51	0.93
29745	15522	15872	4.24E-28	0.98
29745	26550	26807	1.19E-10	0.82
29745	46577	46916	2.26E-05	0.61
29745	86344	87027	5.64E-14	0.9
29745	97755	98324	7.77E-34	0.85
29745	104998	105787	2.85E-36	0.65
29745	115511	116313	5.21E-42	0.79
29745	130869	131123	6.14E-42	0.94
29745	133529	133965	3.35E-26	0.86
29745	136629	137888	3.17E-49	0.7
29745	142317	143161	8.70E-24	0.79
29745	156443	157448	1.56E-78	0.81
29745	165444	166410	1.90E-53	0.69
29745	171776	172269	2.11E-30	0.9
29745	172601	173942	5.23E-82	0.9
29745	174588	175200	1.46E-60	0.85
29745	184432	185135	9.20E-101	0.74
29745	186320	186979	1.06E-44	0.88
29746	90714	90943	1.37E-07	0.82
29747	12446	12794	7.58E-12	0.81
29747	17488	18542	9.69E-46	0.81
29747	26956	27459	4.70E-29	0.89
29747	27792	28713	2.25E-33	0.86
29747	31033	31429	1.58E-09	0.72
29747	47107	48378	1.62E-56	0.8
29747	84176	86278	9.45E-107	0.94
29747	116407	116721	2.21E-14	0.81
29747	119659	120019	2.08E-11	0.81
29747	123214	123597	4.33E-19	0.73

29747	179440	179712	2.19E-16	0.79
29747	215861	216326	4.21E-08	0.77
29747	258162	258676	1.08E-10	0.79
29747	282181	282843	2.77E-08	0.92
29747	294506	295723	2.37E-52	0.86
29747	298748	299127	7.54E-36	0.69
29747	345699	346032	8.24E-32	0.82
29747	346766	347475	4.25E-19	0.81
29747	348172	348667	3.05E-14	0.79
29747	349208	350261	1.96E-74	0.91
29747	350514	351269	9.51E-30	0.65
29747	388417	388924	3.54E-15	0.78
29747	458637	458927	2.59E-36	0.74
29747	459167	459836	2.14E-23	0.64
29747	460090	460534	9.46E-45	0.73
29747	469273	470567	5.81E-108	0.85
29747	470780	471773	2.62E-60	0.89
29748	24397	24639	1.15E-18	0.87
29748	48377	48726	1.80E-20	0.81
29748	52251	52825	7.52E-24	0.82
29748	139446	139655	1.33E-03	0.79
29748	193254	194467	3.41E-101	0.93
29748	212815	213039	8.87E-13	0.84
29748	222591	223104	1.42E-14	0.76
29748	230314	230770	2.25E-29	0.67
29748	240528	241223	3.72E-30	0.77
29748	242389	242768	4.85E-16	0.77
29748	243931	244420	6.43E-55	0.92
29748	244885	245230	6.64E-44	0.95
29748	251210	251531	3.30E-26	0.94
29748	351308	351771	4.66E-05	0.92
29748	447589	447820	2.86E-17	0.75
29748	448081	449123	8.12E-68	0.89
29748	449652	450085	4.14E-18	0.71
29748	450372	450988	1.32E-10	0.84
29748	453905	454180	7.84E-13	0.81
29748	492629	492952	1.22E-16	0.93
29748	528951	529594	2.55E-40	0.96
29748	542181	542611	7.81E-09	0.84
29748	553524	553852	5.09E-04	0.89
29748	565137	565484	6.85E-05	0.94
29748	578849	579159	5.00E-05	0.8
29749	9174	9735	5.75E-22	0.79
29749	10881	11644	1.92E-38	0.87
29749	13060	13332	1.18E-29	0.88
29749	18373	19276	8.03E-50	0.8
29749	19660	20058	2.13E-42	0.83
29749	21940	22573	2.72E-88	0.65
29749	25391	25817	1.17E-42	0.97
29749	49459	49865	1.06E-16	0.7
29749	89842	90790	5.92E-42	0.67
29749	102791	103193	4.40E-12	0.93
29749	108257	108973	7.66E-63	0.89

29749	110311	110698	3.16E-30	0.94
29750	78042	78320	2.83E-04	0.89
29751	1393	1795	3.02E-13	0.77
29751	5337	5585	2.15E-18	0.79
29751	12286	13222	1.88E-33	0.79
29751	30111	31148	2.32E-45	0.7
29751	36117	36767	2.30E-41	0.69
29751	48311	48591	7.65E-19	0.83
29751	51144	51727	1.01E-133	0.92
29751	52093	52318	1.08E-40	0.88
29751	52574	53318	6.26E-15	0.77
29751	56063	56875	2.07E-60	0.78
29751	64954	65873	9.34E-44	0.79
29751	71177	71826	7.71E-34	0.8
29751	73701	74194	6.02E-39	0.96
29751	74413	75605	7.83E-60	0.91
29751	85238	85654	1.35E-28	0.74
29751	113575	113819	9.10E-19	0.76
29751	115561	116066	1.36E-17	0.85
29751	118562	119337	5.45E-101	0.88
29751	123005	123697	1.28E-45	0.81
29751	123965	124859	3.10E-26	0.82
29751	125098	126153	3.91E-59	0.89
29751	162396	163222	1.10E-38	0.88
29751	165443	166273	1.61E-76	0.66
29751	171658	172509	5.63E-36	0.78
29751	176917	177459	1.01E-16	0.84
29751	189914	190147	1.71E-11	0.81
29751	192104	192423	9.37E-11	0.81
29751	196571	197054	3.36E-22	0.81
29751	259873	260170	1.31E-27	0.6
29751	288321	289417	4.68E-37	0.77
29751	372748	373237	1.32E-31	0.84
29751	382805	383692	9.68E-30	0.82
29751	390580	390827	7.27E-12	0.73
29751	415039	415420	2.22E-17	0.71
29751	423763	425416	5.72E-83	0.64
29751	427658	427941	1.37E-19	0.83
29751	439086	439647	3.28E-44	0.64
29751	441531	441893	1.87E-24	0.76
29751	442349	442693	1.18E-15	0.78
29751	469640	470215	2.58E-40	0.93
29751	507213	507784	3.28E-14	0.75
29751	510884	511296	1.07E-06	0.79
29751	543867	544756	1.57E-22	0.8
29751	548223	548674	2.29E-10	0.85
29751	564883	566012	8.86E-34	0.79
29751	610676	610923	2.99E-06	0.72
29751	660250	660663	7.27E-34	0.87
29751	672877	673309	1.36E-10	0.66
29751	684751	685460	6.42E-09	0.81
29751	698494	699048	3.16E-19	0.67
29751	704007	704208	8.41E-22	0.77

29751	704490	705022	2.34E-24	0.76
29751	743491	744348	2.87E-24	0.61
29751	756003	756219	2.28E-21	0.84
29751	760128	760857	6.00E-26	0.81
29751	775622	776399	9.22E-17	0.69
29751	776792	777091	1.44E-19	0.78
29753	30049	30709	2.23E-34	0.77
29753	80932	81171	9.30E-13	0.84
29753	175293	175616	7.90E-19	0.84
29753	189930	190373	1.17E-109	0.96
29753	190902	191331	6.19E-16	0.93
29753	191808	192143	7.50E-57	0.93
29753	192374	192841	2.09E-44	0.93
29753	193072	194564	1.76E-114	0.95
29753	198390	200510	1.07E-133	0.92
29753	251354	251860	2.06E-12	0.68
29753	266313	266551	2.27E-15	0.72
29753	299921	302118	2.45E-173	0.94
29753	308144	308873	7.65E-103	0.95
29753	309241	309557	9.35E-24	0.93
29753	320633	321440	1.87E-68	0.94
29753	367290	368455	1.53E-38	0.85
29754	21852	22185	6.37E-12	0.87
29754	54380	55266	3.42E-64	0.9
29754	62098	62428	1.88E-44	0.84
29754	73001	73314	1.03E-11	0.96
29754	101600	101913	3.18E-09	0.88
29754	101885	102432	1.04E-29	0.91
29754	102697	103046	5.47E-24	0.97
29755	22492	22906	1.57E-10	0.81
29755	60382	60919	1.81E-80	0.94
29755	81254	81606	4.36E-21	0.9
29755	83229	83751	1.41E-76	0.94
29755	84002	84440	7.64E-131	0.92
29755	91872	92104	5.73E-11	0.65
29755	162290	163239	1.21E-57	0.68
29755	164441	165009	4.62E-23	0.62
29755	168656	169117	2.70E-25	0.96
29755	169318	169565	5.57E-24	0.81
29755	170776	171143	1.85E-52	0.93
29755	171928	173193	2.63E-155	0.91
29755	175206	175840	6.61E-35	0.82
29755	191926	192314	2.08E-13	0.61
29755	225613	225992	3.57E-56	0.93
29755	260630	261249	5.52E-16	0.75
29755	261584	261986	2.88E-37	0.8
29755	264086	264297	1.55E-15	0.74
29755	278192	278909	3.52E-08	0.81
29755	294000	294363	2.87E-35	0.97
29756	17010	17664	2.04E-14	0.81
29756	20208	20998	8.59E-33	0.74
29756	25824	26070	9.61E-11	0.78
29756	35752	36653	6.14E-36	0.86

29756	38569	39127	4.62E-40	0.92
29756	44490	45061	4.09E-68	0.88
29756	45736	46294	7.59E-21	0.71
29756	147071	147401	3.28E-18	0.9
29756	150042	150383	2.23E-13	0.85
29756	151780	152034	9.60E-30	0.86
29756	152362	152610	4.52E-06	0.8
29756	153101	153785	3.39E-18	0.79
29756	186714	187016	3.09E-18	0.9
29756	197873	198206	9.49E-23	0.94
29756	199934	200251	1.84E-11	0.83
29756	239438	239807	1.23E-09	0.76
29756	246454	248161	1.28E-91	0.89
29756	248891	249642	1.34E-25	0.63
29757	4058	4627	7.31E-21	0.67
29757	4976	6245	1.11E-58	0.73
29757	8870	9225	1.48E-22	0.93
29757	9437	10901	5.79E-50	0.87
29757	12284	12550	1.96E-34	0.93
29757	12869	13486	1.13E-35	0.93
29757	14655	14906	5.21E-37	0.96
29757	15145	16813	1.30E-181	0.92
29757	17064	17454	1.09E-37	0.95
29757	17977	19402	1.13E-167	0.93
29757	20062	20614	1.82E-26	0.9
29757	24089	24959	9.50E-19	0.84
29757	28356	28891	1.06E-38	0.83
29757	89303	89843	7.95E-84	0.96
29757	123025	124248	7.03E-58	0.86
29757	132266	132843	1.20E-20	0.89
29757	156692	157224	8.53E-06	0.84
29757	158954	159386	1.13E-24	0.73
29757	164686	165007	1.53E-14	0.87
29757	165347	165692	9.89E-28	0.73
29757	192296	193401	5.54E-33	0.9
29757	206611	207126	4.10E-38	0.73
29757	212153	212795	2.12E-41	0.88
29757	213011	213327	3.70E-36	0.94
29757	231544	232132	1.97E-83	0.88
29757	265644	266091	1.68E-27	0.89
29757	271688	271916	4.81E-13	0.71
29757	279595	280034	6.01E-18	0.78
29757	281335	281815	8.23E-26	0.7
29757	308792	309273	2.30E-06	0.93
29757	320908	321434	2.35E-20	0.88
29757	321704	322013	3.45E-18	0.85
29757	329897	330648	1.64E-28	0.81
29757	357779	358427	1.59E-29	0.8
29757	365706	366053	5.60E-13	0.82
29757	372905	373138	1.80E-04	0.85
29757	395728	396009	4.19E-35	1
29758	19013	19754	3.44E-26	0.96
29758	20130	20680	5.73E-31	0.98

29758	48365	48733	2.88E-49	0.91
29758	75988	76771	1.93E-50	0.87
29758	96107	96539	1.02E-115	0.9
29758	104088	104858	3.56E-53	0.9
29758	105208	105704	1.10E-31	0.97
29758	106648	107277	1.13E-51	0.91
29758	107988	110118	1.74E-93	0.84
29758	111517	111799	4.58E-11	0.78
29758	113809	114286	1.95E-05	0.75
29758	115687	116166	1.16E-21	0.74
29758	118517	118775	1.73E-15	0.89
29758	124171	124514	6.53E-38	0.94
29758	136509	137033	8.08E-68	0.97
29758	173866	174067	9.29E-16	0.91
29758	176358	176582	1.62E-24	0.91
29758	182003	182537	2.32E-07	0.85
29758	193175	193627	5.11E-90	0.95
29758	214306	215732	8.81E-33	0.8
29758	221261	221776	1.13E-40	0.86
29758	222037	223544	1.23E-121	0.9
29758	228964	229179	3.83E-15	0.73
29758	230279	230783	2.65E-24	0.91
29758	249049	249261	1.08E-75	0.94
29758	250177	251387	1.34E-125	0.83
29758	252077	252534	7.69E-43	0.84
29758	252805	253195	6.75E-52	0.9
29758	253894	254818	1.57E-61	0.91
29758	257720	257948	1.03E-22	0.75
29758	269262	269857	6.80E-26	0.82
29758	332665	332991	7.08E-30	0.87
29758	336513	336976	1.01E-16	0.84
29758	344497	344900	2.80E-12	0.83
29758	350574	351958	5.50E-86	0.83
29758	403771	404034	3.21E-13	0.8
29758	428919	430874	1.59E-62	0.76
29758	431102	431677	3.36E-46	0.73
29759	3238	3482	6.10E-11	0.87
29759	11776	12077	1.78E-66	0.91
29759	14795	15089	2.16E-19	0.75
29759	15437	16358	3.22E-54	0.73
29759	18159	19433	9.87E-44	0.91
29759	19758	20162	1.91E-64	0.73
29759	21347	21664	4.49E-23	0.68
29759	55642	56007	5.53E-19	0.92
29759	68940	69481	3.58E-46	0.83
29759	72319	72968	7.08E-24	0.88
29759	91681	92816	4.74E-51	0.9
29759	113611	114190	8.86E-28	0.92
29759	116023	116466	5.71E-16	0.82
29759	117540	118139	1.09E-55	0.89
29759	119746	120231	5.78E-37	0.92
29759	122353	123347	5.42E-53	0.81
29759	123634	124008	5.67E-54	0.97

29759	124214	124752	1.58E-72	0.88
29759	126906	127225	2.79E-31	0.78
29759	130094	130417	1.53E-28	0.86
29759	130758	131541	8.90E-35	0.78
29759	152405	152872	6.15E-13	0.84
29759	171822	172292	3.78E-31	0.91
29759	179332	179836	1.87E-08	0.92
29759	187122	187908	8.18E-25	0.79
29759	189626	190111	6.62E-41	0.96
29759	192623	192960	2.06E-22	0.84
29759	196406	196620	2.43E-16	0.8
29760	229	1148	6.61E-27	0.88
29760	11658	12205	2.57E-04	0.81
29760	26367	26723	2.30E-05	1
29760	38552	38927	3.62E-13	0.93
29760	39603	39843	2.47E-28	0.8
29760	41549	41756	5.29E-16	0.88
29760	47354	48186	1.24E-13	0.82
29760	50651	51283	7.34E-30	0.89
29760	74889	75394	2.43E-11	0.92
29760	85116	86490	2.97E-27	0.63
29760	87368	87949	5.53E-17	0.91
29760	102114	103325	2.28E-43	0.94
29760	135337	135685	2.07E-15	0.95
29760	135980	136226	5.61E-06	0.88
29760	146962	147288	1.47E-12	0.9
29760	163680	163942	3.60E-297	0.82
29760	195885	198450	7.35E-33	0.73
29760	239088	239604	2.00E-38	0.95
29760	256696	257071	1.93E-31	0.96
29760	263874	264416	3.11E-32	0.8
29760	274321	274793	1.09E-05	0.88
29760	279310	279676	4.86E-05	0.92
29760	282819	283538	2.04E-18	0.86
29760	284050	284419	7.73E-09	0.88
29760	284508	284748	1.08E-05	0.84
29760	292385	292664	4.26E-05	0.83
29760	312794	313366	1.66E-14	0.89
29760	318847	319174	4.25E-08	0.78
29760	320008	320444	1.86E-11	0.81
29761	1135	1809	1.65E-14	0.8
29761	4127	5007	2.15E-36	0.8
29761	5250	6035	9.02E-80	0.86
29761	8150	8889	4.06E-52	0.81
29761	34084	34696	2.30E-55	0.64
29761	34912	35143	1.52E-25	0.8
29761	40341	40971	3.75E-26	0.89
29761	48664	48911	5.32E-24	0.95
29761	49791	50350	1.01E-28	0.8
29761	50634	50903	2.11E-19	0.8
29761	52756	53372	5.88E-17	0.87
29761	57958	58464	1.58E-44	0.75
29761	60754	61538	6.11E-73	0.87

29761	72151	72968	5.02E-37	0.83
29761	73531	73797	6.08E-13	0.81
29761	99038	99422	1.77E-38	0.82
29761	112881	113289	2.14E-15	0.86
29761	143771	144351	1.60E-21	0.86
29761	148807	149367	1.18E-38	0.92
29761	189234	189662	4.97E-17	0.8
29761	197537	197874	2.48E-16	0.78
29761	211906	212113	7.38E-20	0.87
29762	12511	12955	2.58E-32	0.88
29762	16708	17570	6.39E-58	0.9
29762	19702	20776	5.37E-60	0.93
29762	25073	25494	1.54E-19	0.75
29762	57368	57722	1.76E-30	0.98
29762	79009	79500	3.60E-32	0.88
29762	85005	86086	3.17E-93	0.91
29762	87205	87696	1.09E-41	0.91
29762	102688	103083	2.07E-91	0.93
29762	103404	104256	4.79E-112	0.92
29762	104487	104843	1.50E-19	0.81
29762	112390	112822	2.06E-27	0.66
29762	136316	137630	9.32E-39	0.73
29762	175320	176161	1.17E-28	0.77
29762	184571	184870	5.73E-20	0.96
29762	201595	202230	1.78E-29	0.79
29762	202459	202761	6.37E-21	0.77
29763	6888	7311	1.56E-27	0.9
29763	8908	9330	2.34E-27	0.84
29763	16205	17872	1.10E-48	0.9
29763	29822	30082	2.71E-37	0.86
29763	33012	33534	3.46E-47	0.87
29763	51842	52112	1.46E-31	0.9
29763	54909	55327	3.55E-09	0.75
29763	57476	57748	5.88E-15	0.82
29763	72270	73044	2.46E-72	0.85
29763	73355	74238	1.88E-89	0.91
29763	77071	78154	4.96E-29	0.83
29763	84576	85739	4.36E-85	0.95
29763	86245	86621	8.69E-40	0.96
29763	87451	88149	4.21E-62	0.95
29763	102238	102493	2.73E-18	0.85
29763	105457	105905	1.58E-09	0.85
29763	136707	137110	6.12E-28	0.91
29764	39148	39368	2.87E-06	0.7
29764	62144	62396	3.44E-17	0.93
29764	66927	67409	2.59E-05	0.94
29764	68641	68871	8.16E-04	1
29764	139730	140818	8.02E-40	0.81
29764	200839	201118	1.73E-17	0.92
29764	214142	214351	1.87E-24	0.96
29764	242952	243425	2.14E-16	0.82
29764	246765	247115	1.86E-17	0.79
29764	247968	248252	1.83E-26	1

29764	336006	336574	9.62E-22	0.91
29764	352553	352897	3.16E-11	0.9
29764	376749	377442	1.31E-29	0.75
29764	444838	445628	8.44E-56	0.96
29764	456327	456946	8.94E-33	0.88
29764	498318	498698	4.74E-43	0.85
29764	500648	501062	4.05E-19	0.98
29764	505778	506235	3.67E-51	0.92
29764	590993	591212	3.12E-57	0.96
29764	591454	592896	7.21E-90	0.62
29764	605025	605251	1.71E-13	0.92
29764	646622	647825	1.16E-92	0.93
29764	661737	663085	1.48E-50	0.8
29764	668821	669177	2.19E-16	0.89
29764	669793	670153	6.17E-12	0.94
29764	694132	694348	3.34E-11	0.86
29765	6162	7174	4.87E-34	0.8
29765	17335	20510	3.00E-224	0.86
29765	24743	25190	3.60E-24	0.82
29765	43884	44165	1.43E-27	0.82
29765	44420	44849	1.98E-27	0.96
29765	45126	45376	4.31E-37	0.96
29765	46185	46795	8.89E-30	0.9
29765	48271	48786	7.82E-30	0.86
29765	49720	50457	1.02E-45	0.8
29765	51757	52085	6.26E-30	0.95
29765	52757	53227	8.60E-50	0.72
29765	56635	56976	3.55E-10	0.64
29765	67057	67814	5.90E-34	0.68
29765	74167	74535	2.74E-13	0.76
29765	82105	82653	2.68E-13	0.79
29765	106444	107470	2.61E-78	0.65
29765	111938	112748	2.42E-38	0.77
29765	141714	144521	3.05E-115	0.84
29765	155474	156054	1.12E-18	0.77
29765	161413	163203	2.07E-80	0.88
29765	163421	163709	4.94E-09	0.64
29765	166983	167289	1.91E-21	0.79
29765	193825	194354	2.73E-57	0.87
29765	195769	196983	3.03E-98	0.88
29765	199737	200235	1.56E-19	0.73
29765	211094	212214	1.73E-53	0.81
29765	214768	215647	3.17E-22	0.68
29765	215863	216236	2.93E-23	0.77
29765	226833	228730	1.11E-61	0.63
29765	232555	233389	7.38E-18	0.88
29765	234812	235017	1.44E-09	0.79
29765	267713	268110	1.67E-15	0.8
29765	287617	287906	1.70E-12	0.8
29765	287754	288077	1.40E-11	0.78
29765	288746	290588	1.35E-86	0.81
29765	293190	293581	7.52E-24	0.95
29765	294668	295308	1.20E-36	0.92

29765	332694	333045	4.84E-06	0.97
29765	339113	339697	1.47E-06	0.77
29765	345693	345925	9.06E-20	0.76
29765	347036	347388	3.26E-19	0.79
29765	349761	350249	3.64E-14	0.78
29766	8684	9549	6.69E-48	0.84
29766	82431	83113	4.87E-59	0.91
29766	83406	83892	2.55E-53	0.97
29766	84476	85027	3.37E-77	0.95
29766	101628	102111	1.77E-11	0.64
29767	28017	29543	3.29E-109	0.69
29767	49115	49613	2.21E-14	0.82
29767	49932	51205	1.61E-67	0.87
29767	67784	68095	2.44E-16	0.7
29767	89425	90174	2.04E-38	0.87
29767	97292	97976	1.42E-21	0.77
29767	110236	111058	1.27E-17	0.78
29768	15378	16013	4.11E-25	0.74
29768	20625	21228	1.69E-33	0.95
29768	46750	47558	1.76E-56	0.97
29768	66115	66851	9.17E-21	0.86
29768	71406	72066	5.19E-25	0.89
29768	73373	73604	2.28E-63	0.93
29768	75622	76506	2.68E-46	0.76
29769	5972	6412	2.57E-30	0.86
29769	15332	15682	1.31E-10	0.93
29769	18257	19142	4.90E-77	0.82
29769	19408	20531	2.45E-67	0.92
29769	22020	22741	9.14E-51	0.88
29769	44185	44851	2.93E-34	0.86
29769	65161	65415	3.76E-05	1
29769	78578	79358	1.18E-47	0.89
29769	81843	83274	1.42E-50	0.88
29769	83723	83976	6.57E-22	0.83
29769	85017	85255	3.99E-17	0.78
29769	87436	88295	7.07E-92	0.88
29769	119564	119910	1.16E-42	0.89
29769	139168	139947	2.16E-74	0.91
29769	141895	142465	7.96E-66	0.88
29769	183940	184399	5.27E-17	0.83
29769	208214	208618	1.97E-07	0.8
29769	213580	214088	2.07E-27	0.93
29769	221288	221488	8.06E-14	0.92
29769	231531	231743	1.44E-08	0.79
29769	239804	240064	8.50E-12	0.86
29769	291187	291401	5.13E-06	0.85
29769	295071	295287	3.41E-07	0.86
29769	314414	315102	7.67E-40	0.79
29769	316095	316458	3.06E-25	0.92
29769	332873	333377	4.52E-25	0.83
29769	339320	339885	4.38E-16	0.88
29769	345432	345854	1.05E-28	0.93
29769	368166	368524	2.90E-23	0.95

29770	1599	1948	2.28E-04	0.89
29770	88096	88705	9.84E-54	0.95
29770	136493	137174	1.75E-51	0.9
29770	153421	153732	3.90E-11	0.83
29770	153440	153804	9.97E-11	0.82
29770	167547	167878	2.88E-11	0.63
29770	177401	177713	1.53E-19	0.92
29770	235139	235446	3.83E-39	0.87
29770	238398	238963	2.04E-33	0.93
29770	266585	266929	4.19E-09	0.81
29771	14872	15419	1.29E-46	0.93
29771	19788	20050	1.32E-41	0.98
29772	10173	10608	3.93E-54	0.87
29772	11049	11678	2.13E-38	0.9
29772	12558	13451	1.53E-76	0.73
29772	24436	24682	9.26E-23	0.83
29772	26121	26731	2.82E-37	0.87
29772	33113	33524	3.38E-18	0.88
29772	34309	34528	8.90E-08	0.93
29772	88026	88771	4.39E-26	0.79
29772	89773	90281	1.44E-22	0.71
29772	91134	92175	1.19E-66	0.7
29772	126863	127360	1.81E-18	0.87
29772	133463	133851	5.27E-18	0.7
29772	134378	136359	1.66E-75	0.7
29773	17515	17740	3.94E-04	0.74
29773	26444	27446	2.54E-39	0.82
29773	31087	31479	1.81E-48	0.88
29773	50769	50991	1.44E-16	0.69
29773	63117	63464	4.24E-28	0.86
29773	77329	78152	4.19E-39	0.81
29773	78411	79833	7.84E-97	0.83
29773	82703	83015	7.38E-16	0.82
29773	83415	85571	4.08E-110	0.8
29773	106930	107346	1.06E-25	0.84
29773	108297	108544	2.78E-34	0.89
29773	111571	111966	1.28E-33	0.82
29773	115079	115795	4.03E-71	0.92
29773	139645	139967	7.77E-14	0.81
29773	141679	143704	3.17E-93	0.84
29774	39982	40195	3.68E-04	0.87
29775	9180	9826	2.37E-45	0.77
29775	44425	44778	1.68E-13	0.83
29775	63831	64394	6.95E-46	0.83
29775	66280	66920	3.84E-76	0.82
29775	67392	70082	2.20E-126	0.83
29776	51387	52583	8.02E-34	0.77
29776	60407	61042	2.59E-22	0.75
29776	65399	65834	2.19E-17	0.8
29776	66261	66777	1.87E-23	0.76
29776	76255	76960	7.75E-46	0.82
29776	81889	82104	2.49E-22	0.87
29776	102491	102794	1.17E-12	0.86

29776	170955	171458	8.43E-37	0.89
29776	172083	173202	4.93E-42	0.86
29776	174519	174835	5.42E-18	0.88
29776	182956	184114	1.07E-42	0.85
29776	188841	189423	1.12E-98	0.87
29776	189695	190051	3.70E-23	0.86
29776	190385	190685	1.04E-44	0.95
29776	191497	192561	6.02E-67	0.94
29776	193680	194098	4.13E-50	0.89
29776	195199	195888	1.25E-31	0.84
29776	197849	198414	3.88E-40	0.9
29776	198753	199715	1.51E-53	0.75
29776	204082	204378	5.72E-21	0.9
29776	205466	205964	5.43E-46	0.89
29776	208733	209138	6.29E-36	0.85
29777	13006	14294	1.04E-89	0.77
29777	84810	85403	6.67E-209	0.92
29777	103072	103593	1.64E-56	0.95
29777	105143	105371	3.61E-98	0.95
29777	105744	106623	1.18E-79	0.92
29777	113753	114121	1.78E-14	0.71
29777	114409	114917	1.12E-19	0.9
29777	123088	124107	9.00E-39	0.8
29777	146236	146470	7.61E-07	0.95
29777	164579	165524	2.12E-13	0.63
29778	6307	7080	1.99E-24	0.78
29778	10475	11298	3.62E-26	0.78
29778	27273	28306	9.40E-68	0.62
29778	29595	30150	2.08E-17	0.76
29779	37752	38088	5.20E-10	0.96
29779	43704	44849	2.22E-75	0.9
29779	45123	45379	1.34E-11	0.82
29779	69659	70136	2.70E-03	0.89
29779	130889	131105	6.89E-04	0.77
29779	147808	148371	2.87E-05	0.94
29779	161566	161826	6.61E-08	0.83
29779	210385	211134	1.27E-62	0.8
29779	242794	243047	7.85E-14	0.87
29779	302194	303030	1.80E-26	0.83
29779	308580	309152	3.58E-17	0.74
29779	309375	309623	2.08E-10	0.81
29779	312691	313713	2.42E-68	0.93
29780	5322	5853	1.26E-11	0.79
29780	43428	43912	2.12E-24	0.83
29780	49657	50951	3.65E-55	0.85
29780	77421	77807	6.17E-18	0.87
29780	80754	81180	3.42E-12	0.8
29780	161490	161709	5.64E-23	0.98
29780	233219	233719	1.26E-20	0.83
29780	233332	233776	2.44E-20	0.81
29780	251539	252085	4.24E-40	0.89
29780	287582	288426	1.18E-27	0.73
29780	303176	303381	1.48E-16	0.9

29780	317290	317633	8.28E-39	0.92
29780	356326	357448	4.68E-79	0.82
29780	396951	397396	7.07E-05	0.86
29780	401582	401847	7.06E-12	0.79
29780	440068	440911	1.03E-32	0.77
29780	441643	441912	2.79E-23	0.74
29780	447957	449408	4.88E-58	0.63
29780	473081	473504	5.00E-23	0.83
29780	482537	482793	2.92E-14	0.85
29780	495970	496777	6.33E-22	0.73
29780	497203	497950	7.81E-30	0.79
29780	498196	498439	7.23E-73	0.94
29780	498714	499423	6.34E-57	0.9
29780	499627	500891	1.27E-135	0.92
29780	514514	515324	2.98E-52	0.6
29780	515542	516064	4.75E-25	0.73
29780	523026	523959	1.29E-85	0.76
29780	524320	524801	2.00E-39	0.87
29780	529141	531277	9.87E-65	0.67
29780	633950	634941	7.26E-21	0.78
29780	644817	645286	2.89E-19	0.85
29780	646096	646676	2.37E-75	0.9
29780	647748	647972	8.74E-44	0.77
29781	1699	1997	4.79E-19	0.65
29781	2892	3374	1.02E-21	0.81
29782	25960	26253	3.39E-20	0.74
29782	28572	29361	3.66E-73	0.92
29782	29816	30138	9.83E-58	0.81
29782	30346	31338	4.87E-27	0.69
29782	33113	33379	2.63E-13	0.91
29782	35780	36323	3.87E-17	0.74
29782	69182	69815	3.65E-30	0.8
29783	14775	14985	1.76E-16	0.89
29783	25384	25689	2.07E-19	0.76
29783	26046	27040	1.43E-67	0.89
29783	27690	28377	2.00E-20	0.8
29783	63399	64112	7.46E-55	0.95
29783	81634	82434	3.33E-130	0.92
29783	83294	83687	4.61E-36	0.95
29783	95945	96275	2.38E-06	0.67
29783	160996	161384	3.04E-18	0.72
29783	178843	179065	8.82E-23	0.95
29783	179562	179793	6.71E-10	0.71
29783	213614	214906	2.99E-50	0.77
29783	224354	225330	4.31E-42	0.81
29783	249827	250387	1.43E-33	0.82
29784	25929	26454	2.37E-26	0.66
29784	67204	68587	1.09E-25	0.69
29784	68833	69225	8.28E-32	0.88
29784	89384	90868	2.00E-84	0.85
29784	133573	133792	1.33E-58	0.82
29784	134471	134849	5.82E-69	0.84
29784	135119	135795	1.72E-33	0.91

29784	143013	144993	1.31E-106	0.8
29784	150311	150659	2.85E-20	0.83
29784	156385	157155	9.69E-69	0.61
29784	157361	157983	5.29E-47	0.95
29784	178823	179557	6.61E-40	0.89
29785	2073	2396	2.50E-07	0.67
29785	3746	4505	1.96E-68	0.64
29785	8640	9124	4.07E-44	0.83
29785	11266	11558	3.79E-12	0.63
29785	23727	24297	5.53E-39	0.67
29785	27040	27349	4.07E-06	0.82
29785	33500	33758	1.01E-09	0.88
29785	43571	44318	2.28E-12	0.63
29785	88105	88971	5.34E-75	0.82
29785	99084	99609	1.82E-14	0.66
29785	110762	111079	4.52E-20	0.96
29785	122013	122434	4.19E-20	0.81
29785	122771	124205	6.69E-57	0.89
29785	124427	124790	5.67E-36	0.81
29785	198982	199355	1.48E-17	0.95
29785	211399	211773	8.97E-27	0.72
29785	231789	232164	1.93E-14	0.81
29785	235452	236821	4.08E-42	0.86
29785	240716	240961	4.17E-17	0.88
29785	246015	246309	5.16E-52	0.88
29785	250766	251427	1.85E-35	0.9
29785	262570	263198	2.81E-40	0.87
29785	266406	267097	2.77E-16	0.75
29785	272298	272568	2.54E-14	0.8
29785	279664	279949	4.65E-22	0.75
29785	310274	310837	7.22E-07	0.64
29785	313549	314347	1.73E-12	0.71
29785	329888	330536	3.35E-16	0.78
29785	330609	330957	2.71E-13	0.79
29785	335298	335547	2.43E-28	0.78
29785	351719	352152	7.83E-12	0.74
29785	371602	372182	5.51E-36	0.76
29785	372451	373045	8.77E-26	0.83
29785	373286	373805	3.76E-74	0.92
29785	374073	375883	1.19E-92	0.74
29785	391939	392179	3.28E-22	0.85
29785	403714	404070	5.73E-18	0.87
29785	405677	406191	1.74E-28	0.86
29785	411726	412347	2.56E-34	0.68
29785	420659	421164	1.80E-45	0.86
29785	421725	422494	7.60E-32	0.69
29785	436918	437313	6.50E-18	0.8
29785	496187	496470	2.17E-32	0.83
29785	497183	498576	1.04E-104	0.7
29785	504654	505788	2.20E-64	0.88
29785	517660	518241	1.04E-18	0.77
29785	524357	524644	5.69E-12	0.87
29785	524924	525249	1.08E-09	0.78

29785	525544	525995	1.24E-29	0.97
29785	526355	527011	2.91E-27	0.96
29785	527320	528492	1.84E-95	0.87
29786	9451	9913	5.48E-22	0.94
29786	10635	11837	1.14E-38	0.87
29786	20336	20747	8.32E-77	0.88
29786	41201	42917	9.25E-59	0.85
29786	43171	43390	5.17E-17	0.89
29786	45529	46655	2.29E-76	0.93
29786	50788	52125	3.85E-55	0.92
29786	52397	54320	2.80E-55	0.82
29787	7444	7685	7.23E-05	0.78
29788	9095	9689	5.38E-17	0.61
29788	32334	33094	1.28E-09	0.73
29788	43957	44540	3.18E-32	0.85
29788	56449	57127	1.43E-36	0.81
29788	80477	81281	1.73E-17	0.66
29788	89359	89661	1.51E-12	0.89
29788	91503	92230	5.17E-43	0.86
29788	92442	93444	5.10E-28	0.78
29788	112644	112912	3.69E-06	0.64
29789	1393	1778	1.07E-07	0.88
29789	14404	14648	2.70E-13	0.85
29789	17408	17772	7.87E-18	0.98
29789	43441	43785	2.46E-18	0.8
29789	66038	66517	5.04E-36	0.98
29789	75153	75381	3.23E-06	0.89
29789	76557	76930	1.40E-08	0.94
29790	12019	12346	2.83E-19	0.78
29790	35677	37383	3.28E-50	0.86
29790	107321	108115	1.07E-51	0.88
29790	110052	110276	1.07E-52	0.91
29790	132626	132891	1.33E-19	0.6
29790	140910	141322	5.23E-33	0.9
29790	141553	141975	6.15E-18	0.81
29790	162582	163317	3.05E-33	0.82
29790	166846	167832	1.87E-26	0.72
29790	246208	246715	1.37E-49	0.68
29790	254426	254796	5.46E-07	0.62
29790	326297	327130	1.44E-32	0.76
29790	354066	354957	1.31E-62	0.9
29790	355618	355884	1.74E-23	0.89
29790	363159	364344	2.72E-76	0.89
29790	365056	366301	1.02E-69	0.92
29790	373428	374632	5.54E-100	0.65
29791	6504	7413	9.90E-63	0.63
29791	20801	21726	4.98E-26	0.79
29791	24254	24508	1.20E-14	0.65
29791	53708	53915	1.27E-44	0.92
29791	54780	55042	4.77E-42	0.86
29791	55254	55998	5.50E-79	0.88
29791	56252	56990	3.67E-33	0.86
29791	57579	58121	1.87E-75	0.92

29791	77571	77857	1.33E-10	0.81
29791	104681	105252	1.42E-53	0.91
29791	110498	111504	9.91E-32	0.81
29791	114693	115474	1.68E-24	0.78
29791	119219	120384	5.01E-35	0.73
29791	133491	133694	1.72E-14	0.77
29791	146819	147245	4.91E-15	0.8
29791	148057	149473	1.06E-41	0.83
29791	150124	150753	4.32E-30	0.86
29791	151024	151385	9.34E-31	0.82
29791	160880	161107	3.92E-10	0.79
29791	171358	172340	1.76E-68	0.87
29791	186568	187199	4.95E-87	0.87
29791	188061	188636	1.76E-28	0.86
29791	188964	190457	2.35E-104	0.89
29791	208866	209215	5.06E-17	0.78
29792	16521	17186	1.91E-31	0.71
29792	75195	75666	2.65E-39	0.75
29792	81176	82094	7.66E-95	0.82
29792	94529	95128	1.45E-12	0.75
29792	104496	105305	1.49E-69	0.94
29792	105542	105933	5.50E-24	0.94
29792	106613	106882	1.67E-57	0.85
29792	142066	142630	1.14E-13	0.82
29792	154140	154555	2.04E-15	0.64
29792	157177	158563	5.32E-82	0.91
29792	171485	172808	5.83E-46	0.68
29792	181366	182555	4.07E-79	0.75
29793	4922	5154	7.82E-04	0.85
29793	16126	16546	3.16E-29	0.81
29793	82973	83513	9.96E-06	0.92
29793	103361	103776	7.02E-24	0.79
29793	141608	142202	6.36E-40	0.87
29793	185625	186126	4.49E-27	0.91
29793	213367	213671	4.33E-06	0.79
29793	223567	224011	5.34E-17	0.96
29793	243904	244210	9.91E-12	0.96
29793	252763	253299	9.90E-25	0.88
29793	273842	274072	1.03E-03	0
29793	332137	332953	1.27E-15	0.8
29793	358756	358980	2.99E-31	0.87
29793	376615	376977	4.05E-42	0.97
29793	405745	407231	1.51E-40	0.69
29793	411331	411681	1.43E-05	0.88
29793	479925	480199	6.84E-06	0.96
29793	565120	565836	5.94E-13	0.88
29793	565375	565977	3.96E-08	0.82
29793	582289	582569	2.06E-06	0.85
29793	622939	623499	1.22E-13	0.84
29793	626965	627188	1.11E-06	0.81
29793	639887	640278	1.44E-05	0.85
29793	688455	688893	9.46E-09	0.78
29794	8488	9164	1.67E-21	0.76

29794	36239	36885	8.41E-33	0.84
29794	96021	97351	2.62E-17	0.76
29794	115754	116056	2.83E-52	0.9
29794	116514	117502	5.26E-25	0.8
29794	119930	120142	1.95E-13	0.77
29794	129973	130346	3.54E-34	0.93
29794	131473	132431	7.10E-45	0.79
29794	140931	141364	4.72E-29	0.64
29794	157537	157880	2.89E-13	0.79
29794	201213	201598	2.20E-10	0.81
29794	208248	209010	1.91E-33	0.83
29794	220708	221109	5.00E-15	0.8
29794	221559	222406	1.03E-52	0.9
29794	223583	223936	3.69E-16	0.83
29794	234834	235504	2.35E-18	0.76
29794	245181	246363	9.12E-52	0.76
29794	247019	247223	2.21E-09	0.73
29794	254878	256278	3.75E-82	0.7
29794	278904	281780	3.61E-93	0.65
29794	299693	300184	3.93E-36	0.95
29794	303609	304178	4.22E-35	0.74
29794	304627	305108	6.77E-11	0.66
29794	309067	310131	1.19E-72	0.8
29794	311506	312147	2.59E-18	0.88
29794	315767	316260	2.59E-25	0.9
29794	320326	320982	2.85E-58	0.94
29794	327294	328209	2.15E-50	0.86
29794	378202	378500	2.64E-21	0.61
29794	389385	390664	3.89E-60	0.88
29794	390932	391628	3.56E-97	0.94
29794	398859	400750	4.75E-91	0.84
29794	401714	402790	4.53E-51	0.87
29794	403298	403810	1.37E-30	0.88
29794	406733	407994	4.44E-39	0.79
29794	420344	421081	6.97E-63	0.92
29794	437675	437986	2.14E-15	0.77
29794	438336	438837	1.11E-23	0.84
29794	515061	516735	8.62E-53	0.72
29794	530461	533185	2.95E-139	0.81
29794	537894	538852	5.67E-37	0.86
29794	542100	543136	3.07E-19	0.7
29794	551838	552474	1.17E-22	0.8
29794	557975	558243	6.09E-16	0.82
29794	567133	567791	6.00E-13	0.72
29794	572784	573802	2.28E-36	0.81
29794	623401	623921	9.44E-22	0.84
29794	626032	626525	1.51E-40	0.94
29794	641606	642619	4.93E-43	0.6
29794	655196	655637	1.02E-09	0.63
29794	676102	676787	4.54E-34	0.84
29794	684455	685625	2.85E-44	0.79
29794	704527	705427	1.87E-27	0.78
29794	705642	706459	1.05E-74	0.85

29794	714641	715208	4.55E-22	0.76
29794	759494	760414	6.99E-39	0.9
29794	760703	760966	1.64E-25	0.9
29794	795425	796180	3.39E-30	0.83
29794	806424	806705	7.25E-44	0.87
29794	808052	808546	8.64E-54	0.93
29794	808806	809790	4.00E-55	0.66
29794	831437	831712	1.04E-19	0.85
29794	831942	832334	3.20E-25	0.92
29794	832564	833200	9.59E-37	0.88
29794	875218	875791	4.44E-12	0.85
29794	897536	897774	2.92E-18	0.83
29794	902783	903597	1.99E-29	0.76
29794	920405	920766	1.39E-16	0.76
29794	943035	943528	2.41E-39	0.91
29794	944147	944903	3.61E-19	0.83
29794	948332	948836	2.18E-33	0.71
29794	949060	949846	5.79E-59	0.93
29794	953721	954133	1.88E-13	0.79
29794	987444	987913	2.35E-31	0.65
29794	988120	989261	3.34E-64	0.93
29794	1004318	1004764	4.46E-21	0.71
29794	1006391	1007568	2.28E-52	0.85
29794	1025586	1026043	8.58E-47	0.78
29794	1053187	1053854	1.84E-28	0.72
29794	1055463	1055837	1.88E-13	0.79
29794	1056394	1057884	4.82E-71	0.88
29794	1059711	1059961	3.66E-18	0.81
29794	1069499	1070085	4.86E-37	0.87
29794	1097056	1097530	3.40E-16	0.77
29794	1108317	1108819	9.92E-39	0.86
29794	1109101	1109440	1.82E-25	0.93
29794	1115956	1116857	5.94E-45	0.8
29794	1119415	1120281	5.96E-34	0.78
29794	1122686	1123620	4.13E-62	0.91
29794	1147150	1147380	8.41E-12	0.79
29794	1147426	1147940	4.77E-22	0.83
29794	1175952	1176535	1.09E-45	0.76
29794	1184187	1185173	1.92E-31	0.83
29794	1217090	1219373	6.89E-121	0.81
29794	1224829	1227467	9.24E-157	0.92
29794	1228699	1229453	7.45E-62	0.86
29794	1232936	1233213	1.34E-10	0.86
29794	1256338	1257238	5.94E-49	0.89
29794	1257718	1257987	8.21E-25	0.87
29794	1273895	1274326	1.41E-21	0.81
29794	1280628	1281351	1.24E-55	0.73
29794	1281554	1281986	8.06E-31	0.84
29794	1282943	1283460	3.01E-69	0.84
29794	1292076	1292459	1.93E-34	0.71
29794	1309724	1310187	7.52E-12	0.81
29796	80615	80891	5.56E-05	0.84
29797	10629	10839	1.40E-10	0.89

29797	26715	27591	5.30E-69	0.91
29797	27842	28805	2.67E-50	0.97
29797	31801	33268	9.91E-128	0.93
29797	34159	34826	8.07E-36	0.92
29797	35116	35353	2.77E-33	0.94
29797	35707	36186	9.55E-67	0.91
29797	38462	39014	1.02E-55	0.96
29797	44360	44812	6.53E-16	0.91
29797	68670	69440	5.23E-10	0.81
29797	77787	78144	8.31E-16	0.88
29797	128888	129581	5.07E-42	0.93
29797	136375	136919	4.09E-14	0.69
29797	138581	139482	1.66E-32	0.89
29797	159021	159252	4.75E-47	0.87
29797	168706	169904	2.87E-37	0.62
29797	209916	210618	4.26E-68	0.92
29797	218317	218650	8.29E-05	0.94
29797	222199	222463	3.51E-37	0.97
29797	222824	224207	1.71E-66	0.8
29797	224221	224729	1.15E-13	0.86
29797	225905	226294	1.76E-29	0.97
29797	273662	275099	1.27E-40	0.82
29797	295688	296294	1.36E-60	0.95
29797	297895	298362	4.35E-39	0.92
29797	302255	302753	1.43E-58	0.87
29797	303164	304034	3.61E-58	0.91
29797	304246	304618	1.90E-20	0.92
29797	304944	305413	3.78E-45	0.91
29797	307063	308654	1.24E-80	0.76
29797	323897	324250	3.40E-25	0.86
29797	342059	343034	4.12E-10	0.69
29797	395095	396144	7.02E-91	0.89
29797	396498	398217	2.24E-186	0.87
29798	7844	8063	2.23E-11	0.91
29798	46967	47322	9.14E-20	0.9
29798	59417	60322	1.95E-76	0.9
29798	75856	77159	4.69E-96	0.92
29798	79177	79774	1.30E-94	0.8
29799	7836	8582	2.85E-24	0.79
29799	21911	22920	5.08E-57	0.83
29799	23276	23703	4.38E-39	0.95
29799	26358	27494	7.55E-125	0.95
29799	27817	28382	9.37E-43	0.89
29799	29010	30109	5.40E-69	0.92
29799	31382	31769	1.30E-26	0.88
29799	33268	33663	2.07E-17	0.68
29799	35685	36191	5.16E-31	0.91
29799	37121	37601	4.34E-26	0.9
29799	44325	44577	1.88E-30	0.89
29799	55483	55702	3.47E-20	0.95
29799	65348	65784	1.53E-46	0.94
29799	67731	68022	1.23E-33	0.94
29799	68686	68887	3.11E-31	0.96

29799	70079	71093	7.54E-105	0.9
29799	71434	71994	2.36E-35	0.77
29799	72464	73088	4.45E-75	0.94
29799	163587	163942	7.43E-11	0.83
29799	168952	169264	4.48E-08	0.94
29799	189832	190101	8.48E-13	0.75
29799	190651	191228	8.27E-17	0.78
29799	191446	191685	6.55E-10	0.83
29799	222916	223177	2.60E-16	0.81
29799	242102	242312	3.68E-04	0.97
29799	258603	258941	4.58E-08	0.82
29799	282338	282643	7.63E-06	0.82
29799	290645	291065	2.51E-06	0.77
29799	290981	291734	1.47E-11	0.84
29799	300554	300908	6.17E-06	1
29799	302369	302702	2.32E-07	0.93
29799	318496	318770	6.31E-13	0.89
29799	454819	455629	1.27E-36	0.95
29799	455926	456501	1.45E-32	0.94
29799	457652	457858	3.37E-26	0.92
29799	470316	470698	2.26E-17	0.82
29799	475611	476848	2.51E-55	0.85
29799	485350	485764	1.56E-13	0.71
29799	495843	496169	5.16E-15	0.85
29799	503289	503659	3.87E-35	0.94
29799	542523	542738	1.83E-11	0.92
29799	558271	559155	2.17E-109	0.9
29799	559984	561472	1.56E-85	0.83
29799	590841	592194	3.12E-72	0.87
29799	600106	600520	2.90E-11	0.9
29799	612616	613077	3.27E-92	0.9
29799	642829	643054	4.08E-18	0.66
29799	704488	704919	7.10E-16	0.87
29799	713091	713726	2.85E-46	0.9
29799	720244	720767	3.65E-08	0.88
29800	4550	4853	9.74E-07	0.97
29800	10609	10879	2.13E-17	0.61
29800	17193	17424	6.66E-11	0.96
29800	30982	31186	6.54E-08	0.87
29800	36166	36472	7.87E-14	0.87
29801	2369	2844	3.15E-18	0.71
29801	4379	4865	7.19E-16	0.77
29801	7523	7903	8.58E-73	0.79
29801	24350	24945	8.06E-34	0.88
29801	25162	25795	1.21E-32	0.77
29801	26819	27258	1.26E-15	0.76
29801	29015	30422	3.84E-90	0.61
29801	47395	48935	5.08E-130	0.81
29801	50152	50729	2.52E-73	0.91
29801	52543	53171	2.67E-81	0.93
29801	85476	85849	2.67E-05	0.78
29801	87127	87765	1.81E-08	0.77
29801	107655	107856	3.63E-29	0.93

29801	123966	124788	8.73E-27	0.75
29801	141442	141756	1.01E-08	0.82
29801	144545	145426	2.08E-47	0.8
29801	147278	148085	3.36E-37	0.8
29801	190845	191500	2.58E-21	0.77
29801	191712	192230	1.23E-21	0.83
29801	248067	248846	6.51E-48	0.9
29801	249155	250105	5.66E-68	0.92
29801	250307	251643	4.54E-88	0.68
29801	276385	276861	5.22E-23	0.76
29801	304554	305351	2.15E-43	0.84
29801	312767	313050	1.01E-12	0.79
29801	315164	315434	7.47E-30	0.89
29801	376995	377341	2.00E-14	0.81
29801	402501	402814	7.76E-20	0.78
29801	405107	406540	2.43E-42	0.7
29801	407913	408191	1.39E-11	0.74
29801	408747	409088	9.74E-12	0.89
29801	412920	414068	1.45E-52	0.83
29801	475844	476297	6.28E-19	0.78
29801	501797	502205	1.75E-22	0.68
29801	513331	513977	1.50E-56	0.91
29801	519020	519455	1.84E-06	0.67
29801	538667	539061	1.39E-34	0.86
29801	560199	561883	4.82E-56	0.71
29801	631207	631759	4.54E-32	0.79
29801	638269	640551	2.89E-80	0.7
29801	641302	641686	3.91E-43	0.84
29801	655136	655572	4.08E-38	0.93
29801	659980	660698	2.08E-40	0.75
29801	661190	662310	8.70E-60	0.89
29801	668207	669178	2.10E-32	0.79
29801	698780	699646	6.63E-25	0.82
29801	711385	711844	7.83E-47	0.72
29801	717443	717946	7.20E-29	0.63
29801	748476	748713	2.83E-15	0.8
29801	750210	750977	3.84E-36	0.77
29801	768669	768919	2.76E-28	0.85
29801	770329	770629	2.61E-16	0.8
29801	771663	773582	3.09E-128	0.89
29801	776641	777262	1.37E-34	0.82
29801	784739	785031	1.30E-22	0.87
29801	790534	791320	1.58E-22	0.67
29801	802696	803956	7.35E-73	0.87
29801	818296	818790	1.02E-22	0.8
29801	821257	822064	2.05E-25	0.81
29801	822350	822696	5.07E-20	0.76
29801	838309	839159	6.99E-34	0.78
29801	846531	846916	3.59E-47	0.9
29801	847767	848149	4.34E-34	0.84
29801	853267	853556	1.65E-29	0.93
29801	854217	854530	7.04E-45	0.89
29801	858161	859626	2.37E-86	0.91

29801	859870	860144	2.33E-27	0.91
29801	863652	864101	1.18E-22	0.75
29801	866951	867979	3.57E-31	0.81
29801	879246	880059	1.05E-60	0.91
29801	884059	884444	3.39E-43	0.88
29801	900166	900678	9.56E-19	0.82
29801	903581	904602	2.39E-25	0.62
29801	906916	907705	2.28E-19	0.88
29801	907907	908357	1.16E-20	0.92
29801	909856	910887	6.94E-42	0.64
29801	917124	917430	1.06E-11	0.7
29801	921647	921962	7.74E-45	0.96
29801	923317	923788	1.51E-09	0.76
29801	928597	929847	5.49E-89	0.8
29801	950363	950707	1.65E-32	0.7
29801	951040	951275	1.59E-47	0.91
29801	951994	952446	8.40E-21	0.79
29801	955595	955974	6.56E-34	0.9
29801	956195	957231	1.65E-44	0.81
29801	982981	984105	4.75E-32	0.82
29801	990166	990837	6.54E-29	0.86
29801	993499	994027	3.42E-13	0.84
29801	999467	999845	2.49E-18	0.73
29801	1012754	1013175	1.03E-10	0.89
29802	41178	41450	8.54E-06	0.97
29802	57264	57505	8.21E-07	0.89
29802	152236	152870	8.05E-07	1
29802	208342	208608	1.03E-09	0.86
29802	276901	277625	3.63E-38	0.93
29802	303131	303460	3.99E-10	1
29802	341103	341376	1.28E-09	0.93
29803	26508	26893	1.08E-04	0.79
29803	28707	29244	2.43E-06	0.88
29803	32780	33372	3.73E-04	0.92
29803	44343	44739	2.31E-18	0.87
29803	90552	90907	1.01E-07	0.95
29803	115230	115533	1.38E-11	0.92
29803	118679	118883	1.43E-05	0.81
29803	118812	119064	2.79E-06	0.84
29803	187278	187819	6.47E-06	0.88
29803	229122	229502	3.20E-08	0.78
29803	229220	229709	1.66E-08	0.79
29803	262171	262606	4.14E-08	0.82
29803	278988	279202	2.20E-45	0.87
29803	281320	281620	9.71E-06	0.83
29803	282646	282910	9.93E-12	0.9
29803	282938	283439	1.17E-15	0.86
29803	308872	309437	7.35E-09	0.84
29804	131633	132234	6.58E-34	0.82
29804	160336	160577	3.36E-15	0.94
29804	166479	166859	1.13E-06	0.8
29804	170541	170794	3.94E-11	0.81
29804	175559	177593	5.78E-67	0.78

29804	178151	178380	1.24E-06	0.86
29804	196727	197440	4.48E-07	1
29804	214414	214923	9.18E-44	0.88
29804	226308	226658	3.55E-22	0.92
29804	227072	227811	7.37E-49	0.97
29804	228044	228436	1.16E-45	0.94
29804	228739	228989	9.70E-27	0.92
29804	231401	231602	8.25E-11	0.85
29804	266259	266944	1.03E-44	0.87
29804	269214	270435	2.95E-58	0.81
29804	271297	272295	6.33E-54	0.83
29804	272557	272799	5.18E-19	0.82
29804	273248	273482	2.43E-41	0.84
29804	292569	293079	4.71E-19	0.87
29804	358527	358920	1.03E-26	0.96
29804	379487	379856	1.18E-26	0.96
29804	390385	390782	3.64E-21	0.88
29804	414776	415138	1.87E-07	0.8
29804	414856	415235	8.03E-08	0.78
29804	415209	415574	1.17E-08	0.75
29804	427203	428089	2.34E-70	0.96
29804	451714	452779	3.01E-81	0.92
29804	467561	468080	4.58E-36	0.86
29804	472280	473017	7.75E-37	0.94
29804	566372	566586	9.44E-12	0.83
29804	579054	579355	1.97E-19	0.91
29804	680539	681195	1.15E-28	0.93
29804	685477	685798	2.29E-08	0.76
29804	719798	720813	1.63E-48	0.88
29804	721019	721880	1.63E-44	0.9
29804	725197	725444	2.24E-21	0.89
29804	730201	730698	6.37E-21	0.81
29804	735431	736206	4.15E-27	0.81
29804	736229	736453	1.59E-21	0.9
29804	747762	748834	9.81E-46	0.87
29804	754438	754939	1.27E-44	0.95
29804	755502	756131	3.90E-29	0.8
29804	757427	757710	4.09E-21	0.95
29804	760431	760975	1.79E-37	0.66
29804	762285	762934	2.88E-31	0.71
29804	763142	763577	3.30E-24	0.8
29804	765500	765971	1.94E-11	0.63
29804	774179	774537	2.88E-21	0.82
29804	775439	775995	2.22E-31	0.77
29804	805669	805918	2.83E-15	0.82
29804	808281	809287	1.29E-68	0.71
29804	813188	813626	3.49E-74	0.93
29804	813892	814600	6.23E-60	0.91
29804	814801	815025	3.99E-36	0.94
29804	850845	851150	2.01E-28	0.84
29804	852050	852592	1.49E-19	0.88
29804	857935	858546	9.90E-37	0.88
29804	863874	864658	1.68E-70	0.65

29804	891736	893286	2.71E-89	0.83
29804	893513	893992	3.62E-29	0.9
29804	895326	895716	4.83E-18	0.75
29804	896600	897052	6.96E-24	0.79
29804	897348	897780	5.67E-15	0.85
29804	910712	912162	4.33E-50	0.82
29804	920244	920472	2.13E-11	0.87
29804	928501	929376	5.09E-65	0.86
29804	929708	931612	6.87E-99	0.85
29804	932006	932573	2.49E-14	0.76
29804	946881	947810	3.09E-56	0.89
29804	953742	954349	1.42E-10	0.71
29804	955658	956062	8.65E-12	0.6
29804	978164	978491	2.22E-19	0.8
29804	1017226	1017693	5.58E-45	0.78
29804	1018459	1019057	1.84E-52	0.9
29804	1071772	1072320	9.26E-12	0.82
29804	1105304	1105646	7.15E-16	0.64
29805	28775	29278	3.42E-29	0.66
29805	48344	48675	8.46E-58	0.9
29805	49067	50330	1.21E-71	0.75
29805	52255	53280	2.86E-60	0.8
29805	58753	59523	1.55E-23	0.74
29805	68523	68912	1.68E-35	0.88
29805	76246	76679	4.25E-15	0.79
29805	77905	78151	7.62E-25	0.9
29805	91192	91891	1.23E-16	0.86
29805	92623	93582	5.24E-68	0.87
29805	94060	94704	5.73E-36	0.84
29805	94934	95193	5.01E-36	0.95
29805	97243	98060	1.30E-50	0.77
29805	109986	110449	8.16E-44	0.81
29805	119648	120338	1.77E-25	0.82
29805	143537	144076	1.54E-18	0.87
29805	148935	150027	1.36E-46	0.67
29805	152173	152580	1.05E-11	0.77
29805	153880	154365	5.45E-21	0.62
29805	182467	183192	1.92E-55	0.88
29805	189188	189568	1.25E-12	0.8
29805	198556	198893	2.95E-13	0.79
29805	199428	199832	1.50E-13	0.81
29805	203838	204453	2.27E-27	0.82
29805	223357	224857	6.69E-84	0.79
29805	225090	225834	1.62E-55	0.81
29805	226198	227101	2.08E-44	0.77
29805	231714	233158	2.22E-32	0.67
29805	236828	237085	1.67E-10	0.79
29805	268221	270491	3.06E-142	0.83
29805	291410	292834	8.93E-63	0.88
29805	293832	294191	1.67E-28	0.85
29805	296956	297340	4.56E-25	0.86
29805	298493	299348	5.49E-55	0.81
29805	319303	320960	7.00E-95	0.89

29805	350399	351879	1.24E-57	0.68
29805	357391	358085	1.79E-22	0.84
29805	362094	362632	3.32E-19	0.84
29805	367336	368079	4.14E-55	0.89
29805	368287	369174	2.67E-37	0.82
29805	379005	379556	2.14E-25	0.88
29805	384395	384780	2.76E-20	0.89
29805	403870	404116	2.97E-10	0.96
29805	415007	415406	4.91E-24	0.83
29805	425451	425768	1.87E-18	0.89
29805	426094	426653	4.51E-24	0.85
29805	427616	428097	5.18E-31	0.91
29805	428386	428694	5.87E-15	0.9
29805	430483	430984	7.97E-29	0.82
29806	5795	6607	6.28E-71	0.81
29806	7862	8141	3.00E-23	0.9
29806	25849	26382	2.16E-17	0.79
29806	48152	48967	6.03E-32	0.76
29806	58012	60824	7.63E-118	0.73
29806	62884	63542	1.97E-34	0.85
29806	89973	90376	9.02E-24	0.83
29806	91110	91517	7.19E-20	0.89
29806	105472	105860	4.98E-15	0.74
29806	107582	107862	4.18E-29	0.97
29806	146243	146482	1.22E-05	0.89
29806	209775	209998	2.25E-34	0.93
29806	249188	249550	3.94E-28	0.79
29806	273162	273887	9.15E-17	0.83
29806	326866	327231	7.94E-19	0.88
29806	331259	332250	1.62E-33	0.8
29806	332609	332982	4.10E-17	0.66
29806	334290	334893	2.12E-27	0.63
29806	345067	345979	3.06E-45	0.76
29806	346900	347806	5.09E-19	0.73
29806	360518	361169	1.43E-52	0.91
29806	385823	387574	2.31E-85	0.87
29807	42416	43096	9.26E-59	0.92
29807	45761	46088	2.34E-32	0.9
29807	52294	52721	1.15E-05	0.79
29807	92182	92413	1.70E-08	1
29807	181697	183246	4.48E-81	0.76
29807	188106	188444	5.60E-49	0.84
29807	189066	189443	1.20E-70	0.89
29807	190206	190528	1.28E-26	0.85
29807	194860	195240	8.92E-19	0.85
29807	213111	214638	1.74E-45	0.7
29808	1158	1388	1.26E-03	0.81
29808	4331	4551	6.97E-13	0.94
29808	59831	60385	2.71E-20	0.81
29808	60719	60921	2.24E-07	0.97
29808	61206	61707	4.00E-22	0.77
29808	83764	84013	6.28E-07	1
29808	119552	120123	2.74E-32	0.62

29808	145655	145872	4.11E-09	0.92
29808	176085	177014	1.06E-43	0.87
29808	191440	191711	3.54E-13	0.85
29808	197829	199224	3.05E-43	0.81
29808	230235	230465	2.25E-39	0.94
29808	230686	231015	4.06E-26	0.92
29808	245719	246376	1.03E-57	0.92
29808	249563	251180	2.38E-110	0.93
29808	251630	252330	5.01E-46	0.79
29808	294424	294768	1.15E-131	0.89
29808	326461	327418	1.75E-70	0.97
29808	333430	334164	6.63E-39	0.92
29808	334473	334946	5.70E-62	0.92
29808	335410	335901	1.73E-24	0.9
29808	336216	336499	2.86E-29	0.92
29808	338615	339021	1.31E-42	0.94
29808	345589	345821	1.72E-34	0.95
29808	410532	410833	3.81E-07	0.87
29808	424472	424675	3.78E-13	0.9
29808	449529	449911	5.80E-05	0.92
29808	587767	588318	1.13E-04	0.9
29808	741572	743257	2.02E-53	0.89
29810	29514	30090	6.09E-25	0.72
29810	47387	47858	2.31E-24	0.82
29810	58104	58494	1.25E-28	0.94
29811	14729	14935	3.20E-41	0.9
29811	15345	15950	2.80E-28	0.88
29811	16204	16405	2.66E-08	0.74
29811	16634	17316	3.24E-68	0.97
29811	25322	25770	1.82E-22	0.8
29811	40905	41359	9.51E-83	0.92
29811	41706	42584	1.16E-67	0.96
29811	47901	48249	7.90E-29	0.91
29811	83638	83967	1.55E-34	0.72
29811	103614	104203	2.18E-36	0.87
29811	161875	162165	8.19E-17	0.72
29811	182697	182995	3.69E-17	0.76
29811	202205	202424	1.17E-20	0.92
29811	203842	204296	7.47E-29	0.95
29811	209430	210185	3.44E-47	0.94
29811	210390	210812	8.56E-25	0.83
29811	220928	221154	2.16E-11	0.8
29811	222619	223090	5.78E-20	0.82
29811	222837	223235	1.66E-15	0.81
29811	223968	224247	1.26E-07	0.82
29811	240680	241389	1.20E-55	0.85
29811	248822	249365	1.35E-25	0.8
29811	264340	264582	3.52E-09	0.87
29811	275744	275954	3.62E-29	0.95
29811	288457	288713	1.44E-19	0.92
29811	296635	297347	6.77E-32	0.8
29811	301660	302127	9.36E-23	0.61
29811	302491	303077	2.50E-11	0.61

29811	323578	323949	3.43E-33	0.88
29811	325236	326980	2.14E-82	0.64
29811	327226	327548	1.73E-40	0.86
29812	56704	57232	1.26E-28	0.78
29812	66754	67174	5.88E-32	0.88
29812	68710	68974	2.07E-15	0.82
29812	71290	72627	1.43E-61	0.89
29812	77448	77735	3.67E-09	0.91
29812	78040	78275	4.69E-11	0.8
29812	80423	80978	2.85E-26	0.86
29812	82022	82460	2.50E-26	0.85
29812	96288	96771	7.38E-13	0.75
29812	103676	104327	5.03E-43	0.86
29812	104703	105017	1.39E-21	0.92
29813	16852	17131	1.69E-28	0.95
29813	17396	18061	1.52E-38	0.68
29813	28902	29167	5.90E-17	0.88
29813	29904	32259	1.82E-143	0.89
29813	34889	35153	1.78E-07	0.78
29813	37449	37687	2.46E-04	0.72
29813	61685	62177	2.97E-09	0.67
29813	81611	81907	2.39E-09	0.89
29813	97932	98418	2.35E-21	0.88
29813	128154	129277	4.47E-157	0.9
29813	129519	130015	1.28E-24	0.81
29813	142913	143461	3.45E-62	0.83
29813	170301	170607	2.28E-27	0.9
29813	170946	171445	1.17E-27	0.92
29813	180949	181195	3.98E-11	0.79
29813	217784	218584	8.31E-64	0.81
29813	239262	239920	4.86E-43	0.86
29813	253066	253574	3.83E-17	0.87
29813	262106	262341	3.66E-13	0.67
29813	270876	271265	4.11E-25	0.86
29813	272111	272650	4.42E-59	0.88
29813	298496	299190	4.61E-28	0.82
29813	347469	347868	5.40E-09	0.61
29813	415569	415932	1.98E-37	0.86
29813	426650	428737	4.97E-96	0.7
29813	482588	483154	3.61E-30	0.84
29813	532308	533139	4.35E-37	0.77
29813	533789	534250	1.33E-26	0.94
29813	534621	535010	2.72E-57	0.89
29813	542145	542393	2.72E-23	0.61
29813	546187	547186	6.80E-52	0.87
29813	547797	548128	2.21E-33	0.83
29813	557283	561028	2.35E-202	0.83
29813	563755	565539	4.00E-88	0.78
29813	565837	566303	3.66E-46	0.94
29813	574772	575113	2.60E-23	0.85
29814	26891	28061	7.91E-36	0.78
29814	30613	31017	2.66E-19	0.81
29814	32502	34161	2.88E-82	0.87

29814	50833	51249	3.39E-12	0.62
29814	75701	76764	3.38E-66	0.83
29814	77102	77835	1.17E-56	0.84
29814	79719	79998	1.66E-25	0.91
29814	91336	92130	1.34E-38	0.88
29814	119209	119518	1.78E-16	0.88
29814	133833	134269	4.55E-14	0.8
29814	139236	139581	1.03E-13	0.94
29814	147063	147434	3.54E-07	0.79
29814	178312	178529	8.86E-05	0.65
29814	180350	180597	8.86E-05	0.77
29814	211468	211699	1.35E-10	0.69
29814	212651	214184	5.07E-60	0.88
29814	249725	250515	5.52E-32	0.87
29814	259489	260273	6.53E-28	0.75
29814	260805	261845	6.45E-92	0.93
29814	262145	262669	2.28E-56	0.83
29815	54091	54828	4.14E-23	0.6
29815	72023	73236	6.01E-65	0.7
29815	74946	75724	1.86E-42	0.88
29815	79827	80099	2.50E-17	0.73
29815	96546	97171	2.58E-24	0.73
29815	110849	111623	5.11E-36	0.77
29815	124083	124956	3.52E-42	0.82
29815	149478	150170	1.35E-13	0.62
29815	211080	211529	9.06E-20	0.87
29815	249373	249673	2.09E-18	0.8
29816	314	1300	2.47E-12	0.75
29816	21996	22930	1.24E-97	0.84
29816	42827	43302	2.69E-50	0.87
29816	45090	46777	7.00E-74	0.85
29816	60517	61608	8.61E-29	0.76
29816	68998	69851	5.72E-26	0.77
29816	123656	124283	1.71E-29	0.85
29816	171177	172020	9.00E-35	0.76
29816	173814	174057	1.01E-16	0.83
29816	174742	175550	2.84E-61	0.94
29816	176778	177104	6.12E-15	0.88
29816	186011	187735	1.29E-66	0.92
29816	189495	191060	3.72E-72	0.93
29816	207154	207396	4.37E-37	0.9
29816	207619	208149	1.91E-21	0.82
29816	247787	248768	6.55E-40	0.84
29816	249101	249449	1.49E-07	0.89
29816	252757	253140	1.87E-15	0.74
29816	255082	255625	6.57E-24	0.89
29816	261245	261602	1.04E-19	0.89
29816	284413	284968	4.25E-06	0.86
29816	314125	315838	1.26E-55	0.79
29816	323188	323714	7.62E-12	0.79
29816	339464	340592	5.76E-95	0.92
29816	383675	384413	8.31E-12	0.8
29817	10306	11214	1.62E-25	0.69

29817	36937	37475	2.32E-09	0.93
29817	95610	95884	9.88E-20	0.89
29817	108584	109238	5.49E-34	0.8
29817	108694	109280	1.11E-33	0.79
29817	110831	111154	1.21E-07	0.8
29817	114862	115323	1.32E-27	0.83
29817	194692	195071	1.00E-13	0.81
29818	206	473	4.77E-16	0.95
29818	6594	6932	4.16E-15	0.8
29818	14981	16313	4.39E-80	0.8
29818	16525	17518	1.18E-27	0.79
29818	50294	50848	5.98E-25	0.81
29818	53039	53306	1.10E-26	0.88
29818	60214	62051	4.89E-93	0.83
29818	101994	102417	1.87E-21	0.87
29818	102672	103478	9.15E-47	0.73
29818	108588	108992	3.19E-12	0.74
29818	112928	113335	2.84E-37	0.96
29818	145928	147046	1.20E-43	0.84
29818	152064	152661	6.87E-26	0.83
29818	155398	155912	3.32E-76	0.91
29818	156164	156974	2.83E-66	0.91
29819	17859	18415	1.66E-25	0.82
29819	18671	19411	5.26E-45	0.79
29819	29577	29837	3.54E-49	0.89
29819	51279	51564	1.02E-11	0.81
29819	78842	79251	2.99E-42	0.95
29819	79567	79781	1.87E-20	0.84
29819	80004	80427	3.54E-31	0.83
29819	84475	85140	8.35E-29	1
29820	22571	23167	1.75E-21	0.79
29820	23207	23790	1.06E-32	0.81
29820	49348	49551	1.09E-13	0.81
29820	55885	56480	2.89E-25	0.74
29820	67794	68748	9.77E-88	0.87
29820	75321	75605	6.56E-44	0.83
29820	90440	91434	1.61E-89	0.92
29820	134923	137030	1.53E-90	0.82
29820	216007	217027	7.44E-49	0.93
29820	217636	218827	6.38E-61	0.88
29820	272118	273068	4.44E-34	0.69
29820	284105	284751	2.00E-44	0.97
29820	296357	298892	5.70E-96	0.76
29820	339613	339994	1.29E-31	0.8
29820	341334	342240	9.98E-65	0.86
29820	342491	342718	5.04E-27	0.89
29820	343537	344150	1.06E-26	0.89
29820	353668	353871	8.64E-12	0.76
29822	8966	9486	7.46E-30	0.87
29822	67385	68220	9.96E-40	0.8
29822	68451	68876	8.07E-34	0.89
29822	74750	75032	9.28E-06	0.82
29822	88012	88466	1.18E-15	0.8

29822	94112	94655	1.10E-19	0.68
29822	96184	96695	1.44E-29	0.79
29822	114400	115400	4.24E-64	0.64
29822	139895	140711	1.66E-23	0.74
29822	140914	141827	4.97E-37	0.84
29822	142365	144633	7.05E-174	0.91
29822	145840	147743	4.18E-83	0.85
29822	148550	148907	4.73E-19	0.86
29822	150781	151080	2.03E-14	0.86
29822	153198	153975	4.11E-61	0.74
29822	154220	154659	8.83E-23	0.75
29822	154878	155584	2.51E-38	0.82
29822	165362	165979	1.01E-25	0.66
29822	166236	166657	2.97E-20	0.91
29822	166386	166978	3.19E-21	0.83
29822	172961	173178	3.47E-20	0.85
29822	173400	173697	8.31E-42	0.85
29822	173925	174620	3.21E-83	0.89
29822	313321	313609	1.12E-33	0.88
29822	324397	324905	1.62E-19	0.61
29822	406402	407919	3.47E-116	0.92
29822	425406	426130	1.67E-49	0.87
29822	429234	429519	6.46E-32	0.93
29822	429822	430247	5.67E-34	0.94
29822	443634	444150	5.02E-41	0.91
29822	444483	444731	4.06E-39	0.92
29822	445532	445887	4.03E-62	0.85
29822	475968	476461	1.95E-15	0.83
29822	478558	479121	3.55E-29	0.85
29822	489191	489757	2.42E-56	0.93
29822	489964	490395	2.65E-40	0.91
29822	490660	491218	1.34E-46	0.73
29822	503269	503984	2.03E-34	0.81
29822	505653	505894	2.20E-48	0.95
29822	511111	511457	3.60E-12	0.83
29822	512359	512637	7.43E-14	0.92
29822	515789	516304	6.90E-23	0.82
29822	572504	573067	1.17E-55	0.9
29822	573327	573621	7.23E-32	0.95
29822	589024	589954	2.09E-39	0.84
29822	590402	590697	3.52E-66	0.89
29822	599331	599727	4.18E-22	0.8
29822	599975	600451	2.50E-59	0.93
29822	703417	703732	1.14E-14	0.79
29822	703477	703734	4.15E-13	0.82
29822	703976	704671	1.61E-40	0.82
29822	712985	713293	1.54E-21	0.75
29822	713589	713987	2.55E-53	0.96
29822	714236	714581	4.58E-31	0.84
29822	741904	742682	2.67E-40	0.83
29822	758074	758533	2.17E-09	0.69
29822	800262	801060	1.33E-40	0.72
29822	824505	826758	1.49E-61	0.76

29822	846654	847349	5.83E-70	0.91
29822	852083	852509	6.70E-09	0.78
29822	863771	864982	2.56E-85	0.76
29822	880432	881969	4.78E-74	0.84
29822	890947	891768	5.07E-50	0.79
29822	894676	895151	1.93E-20	0.92
29822	895428	896172	4.21E-66	0.61
29822	901214	901621	4.65E-117	0.88
29822	920880	921494	1.22E-35	0.94
29822	922207	922748	2.60E-32	0.84
29822	926605	927107	1.24E-10	0.88
29822	937511	937890	2.99E-41	0.77
29822	955670	956229	6.01E-39	0.86
29822	958692	959364	4.74E-12	0.79
29822	961413	962742	1.51E-90	0.89
29822	976747	977131	1.16E-07	0.76
29822	1015438	1017191	3.96E-42	0.76
29822	1062978	1064278	3.21E-50	0.82
29822	1065940	1066534	2.93E-22	0.81
29822	1076322	1077935	5.37E-47	0.74
29822	1086461	1087436	3.84E-64	0.91
29822	1092989	1093427	2.20E-13	0.68
29822	1108677	1109052	3.78E-49	0.89
29822	1115646	1116563	9.60E-45	0.62
29822	1134087	1134505	1.93E-33	0.78
29822	1140519	1141028	3.39E-56	0.87
29822	1141412	1142082	2.38E-31	0.96
29822	1150457	1151827	7.47E-46	0.66
29822	1157000	1158544	3.46E-67	0.75
29822	1159845	1160093	1.09E-15	0.75
29822	1165089	1166096	3.36E-29	0.73
29822	1166755	1167180	3.62E-26	0.71
29822	1170461	1171114	3.17E-34	0.94
29822	1172698	1173206	2.55E-36	0.92
29822	1173902	1174174	3.62E-38	0.9
29822	1174812	1175209	7.87E-49	0.89
29822	1175506	1175883	5.70E-39	0.9
29822	1188088	1189210	1.64E-64	0.86
29822	1189557	1190016	4.05E-44	0.93
29822	1190339	1190627	2.06E-14	0.78
29822	1190828	1192087	3.48E-64	0.87
29822	1193114	1193476	1.04E-35	0.93
29822	1194416	1195179	2.08E-54	0.94
29822	1195485	1196278	3.24E-59	0.93
29822	1199675	1199981	1.90E-14	0.92
29822	1200230	1200586	2.51E-56	0.92
29823	2322	2991	1.41E-13	0.62
29823	4607	5082	1.70E-23	0.68
29823	24539	24818	8.70E-08	0.93
29823	47848	48642	3.29E-62	0.94
29823	124503	124929	2.88E-20	0.68
29823	137021	137424	1.28E-32	0.86
29823	180491	181001	1.26E-34	0.93

29823	181862	182542	2.68E-12	0.85
29823	203855	204100	1.92E-27	0.81
29825	14908	15551	1.96E-13	0.64
29825	17947	18326	1.60E-12	0.73
29825	33056	34018	4.71E-44	0.6
29825	34892	35619	2.93E-40	0.87
29825	41008	41367	1.01E-15	0.85
29825	54200	55872	4.48E-72	0.79
29825	58336	59933	1.61E-39	0.79
29825	58818	59942	2.63E-26	0.8
29825	73017	73933	2.35E-22	0.68
29825	125333	125836	4.45E-14	0.83
29825	142162	142858	6.69E-58	0.85
29825	142924	143465	2.36E-20	0.77
29825	143489	143936	1.54E-26	0.8
29825	150233	150619	2.20E-21	0.61
29825	165959	166455	3.54E-34	0.91
29826	5902	6324	5.00E-16	0.86
29826	35844	36381	8.95E-41	0.91
29826	64099	64389	1.01E-41	0.77
29826	88259	88569	1.23E-10	0.78
29826	103600	104036	3.06E-07	0.61
29826	113076	113700	6.50E-17	0.83
29826	126766	127614	9.87E-98	0.95
29826	137503	138239	1.18E-62	0.94
29826	140328	141269	2.96E-26	0.65
29826	142207	142497	2.94E-14	0.8
29826	171843	172082	5.48E-34	0.92
29826	172386	172640	2.34E-29	0.89
29826	187624	188249	3.56E-57	0.89
29826	215741	216039	1.19E-24	0.95
29826	221421	221920	3.40E-15	0.77
29826	292335	292765	8.17E-43	0.99
29826	293592	293989	3.30E-65	0.94
29826	326793	327820	5.77E-75	0.92
29826	336738	337622	2.33E-19	0.71
29826	360909	362898	1.69E-51	0.82
29826	366952	367471	4.89E-28	0.89
29826	391541	392014	3.81E-32	0.93
29826	416299	416775	2.35E-24	0.88
29826	418732	418979	7.13E-39	0.92
29826	427226	427709	4.25E-37	0.92
29826	463961	464240	1.23E-28	0.9
29826	479924	480311	1.22E-13	0.63
29826	542376	544050	7.11E-64	0.82
29826	546002	547393	4.96E-165	0.91
29826	548017	548325	5.38E-11	0.93
29826	553447	553823	9.45E-23	0.88
29826	554849	555146	2.02E-14	0.76
29826	592677	593024	3.13E-26	0.8
29827	2892	3473	1.71E-09	0.69
29827	15486	17100	3.88E-124	0.64
29827	47551	47840	4.59E-10	0.84

29827	49601	49915	1.59E-09	0.79
29827	53022	53722	1.06E-27	0.7
29827	104236	104656	4.51E-73	0.83
29827	105537	107389	4.23E-109	0.85
29827	108032	108879	3.33E-80	0.97
29827	109251	109575	5.16E-35	0.8
29827	116375	116713	3.32E-29	0.87
29827	119992	120285	8.52E-31	0.92
29827	128495	129038	5.51E-51	0.7
29827	135472	135802	1.34E-18	0.63
29827	174149	175390	1.51E-27	0.79
29827	178483	178873	3.34E-11	0.83
29827	179078	180647	2.57E-67	0.61
29827	187811	188132	6.40E-09	0.76
29827	188525	188896	4.13E-19	0.95
29827	215162	215400	2.65E-72	0.94
29827	239402	239866	6.19E-37	0.95
29827	240146	240685	6.06E-54	0.91
29827	241863	242472	1.48E-60	0.91
29827	245045	245899	1.02E-76	0.92
29827	250807	251808	3.56E-21	0.61
29827	252510	253179	1.51E-27	0.8
29827	255878	256461	5.74E-24	0.69
29827	258106	258632	2.34E-33	0.85
29827	259712	259949	5.33E-17	0.92
29827	260354	261342	4.77E-121	0.88
29827	261685	261962	7.67E-32	0.9
29827	262202	262904	1.41E-78	0.89
29827	271190	271709	4.45E-53	0.87
29827	273033	274136	4.25E-37	0.88
29827	277793	278827	9.85E-48	0.87
29827	318780	319761	4.40E-35	0.83
29827	324854	325275	3.65E-21	0.7
29827	327502	328252	4.32E-38	0.89
29827	339892	340427	6.48E-17	0.74
29827	344980	345816	4.57E-16	0.79
29827	346156	346574	7.46E-20	0.9
29827	346953	347381	3.75E-17	0.82
29827	347757	348100	4.02E-19	0.92
29827	369774	370052	2.96E-19	0.8
29827	378212	380343	5.59E-98	0.82
29827	393716	394094	1.91E-15	0.68
29827	394436	395515	1.74E-30	0.78
29827	408477	409538	1.19E-45	0.87
29827	409000	409881	1.98E-41	0.85
29827	410629	411092	4.42E-09	0.76
29827	412908	413201	1.52E-16	0.85
29827	413609	414894	5.21E-48	0.88
29827	416635	417111	3.28E-20	0.73
29827	419422	419652	4.35E-10	0.78
29827	419954	420156	5.02E-33	0.77
29827	423817	424318	1.17E-41	0.75
29827	438940	439745	3.27E-21	0.81

29827	442275	443371	9.55E-54	0.82
29827	443790	445257	1.15E-64	0.82
29827	449249	449589	2.11E-13	0.8
29827	456071	456763	4.56E-42	0.8
29827	460137	460625	4.59E-18	0.9
29827	462214	462880	3.95E-66	0.88
29827	487458	488038	4.98E-14	0.76
29827	505348	505611	4.12E-17	0.86
29827	506729	507078	7.06E-12	0.7
29827	523965	524573	2.04E-22	0.84
29827	530105	530648	2.78E-23	0.91
29827	535313	535884	8.06E-36	0.91
29827	536096	536460	7.18E-34	0.85
29827	542512	542773	6.35E-18	0.98
29827	546325	546741	3.17E-13	0.77
29827	559874	560351	2.08E-31	0.62
29827	566728	567193	2.44E-16	0.82
29827	581719	582197	1.45E-19	0.85
29827	587903	588444	2.29E-15	0.8
29827	604448	605564	7.85E-53	0.73
29827	606569	607011	1.03E-22	0.9
29827	623529	623792	1.50E-25	0.91
29827	638171	639360	3.73E-70	0.73
29827	667103	667583	4.13E-31	0.77
29827	668555	668807	1.25E-32	0.95
29827	684480	685280	3.64E-22	0.62
29827	688441	689055	1.14E-45	0.89
29827	691507	691798	6.97E-31	0.95
29827	706072	708547	4.11E-122	0.93
29827	724150	724605	2.31E-21	0.68
29827	733740	734604	4.76E-73	0.6
29827	735801	736862	1.14E-61	0.9
29827	746711	747295	3.03E-17	0.79
29827	749765	750331	1.15E-62	0.9
29827	777597	778114	2.34E-16	0.71
29827	794948	796084	2.98E-32	0.66
29827	796559	797258	3.89E-66	0.91
29827	797508	798087	2.02E-26	0.79
29827	840441	840675	1.76E-30	0.83
29827	840890	841228	4.44E-22	0.92
29827	859965	860451	4.97E-14	0.86
29827	865474	866099	3.44E-29	0.87
29827	867208	867599	4.32E-11	0.81
29827	868721	869211	1.94E-19	0.83
29827	869651	870032	1.38E-28	0.89
29827	901343	902060	2.35E-86	0.93
29828	10481	10727	5.93E-13	0.78
29828	11332	11839	4.62E-15	0.82
29828	28804	29012	8.24E-06	1
29828	72026	72314	8.05E-10	0.79
29828	107061	107600	1.01E-03	1
29828	125266	125532	1.36E-04	0.15
29828	143990	144726	2.64E-29	0.9

29828	145136	146596	2.01E-85	0.63
29828	229467	230062	1.32E-18	0.81
29828	230295	230670	2.14E-18	0.69
29828	236641	237118	5.00E-32	0.9
29828	238131	239105	1.32E-52	0.89
29828	280949	282187	8.26E-65	0.76
29828	311781	312060	7.46E-28	0.91
29829	66636	66906	2.81E-11	0.93
29829	71152	71384	1.13E-11	0.79
29829	85011	85256	1.43E-11	0.83
29829	108404	108738	3.86E-22	0.92
29829	125099	125447	8.25E-05	0.84
29829	126112	126341	3.67E-10	0.95
29829	137632	137872	1.65E-04	0.77
29829	143228	143879	2.81E-05	0.79
29829	143292	143957	2.26E-05	0.79
29829	144027	144256	6.82E-10	0.87
29830	4371	4817	3.56E-22	0.74
29830	27408	28277	2.32E-48	0.86
29830	28509	29046	3.80E-44	0.86
29830	29249	30584	2.18E-51	0.74
29830	40422	41008	2.24E-29	0.87
29830	41241	41716	3.32E-82	0.91
29830	42395	43393	5.82E-25	0.8
29830	47641	48141	5.13E-25	0.76
29830	59049	59269	1.45E-17	0.74
29830	84717	85022	1.28E-09	0.79
29830	85264	85864	4.99E-29	0.8
29830	87284	87533	9.76E-33	0.91
29830	89378	89755	5.76E-30	0.83
29830	90917	91693	2.50E-65	0.9
29830	93448	93701	1.03E-15	0.81
29830	98002	98408	2.87E-09	0.79
29830	98867	100170	1.55E-66	0.92
29830	101360	102069	7.93E-67	0.9
29830	102580	103360	6.18E-30	0.88
29830	108315	109033	3.83E-67	0.89
29830	119385	120121	4.23E-28	0.87
29830	126003	126507	1.55E-40	0.91
29830	156706	156906	3.73E-06	0.72
29830	173603	174348	3.88E-38	0.77
29830	194272	194946	3.73E-13	0.64
29830	223571	224790	4.20E-52	0.74
29830	254610	255137	1.41E-61	0.88
29830	267071	267478	1.46E-19	0.79
29830	271947	272734	1.28E-23	0.62
29830	284082	284485	7.47E-17	0.77
29830	342760	343354	3.42E-51	0.91
29830	356173	357017	4.23E-29	0.8
29830	356264	357322	1.75E-30	0.79
29830	379440	380269	9.24E-55	0.92
29830	388426	388773	7.13E-26	0.88
29830	389896	390796	1.80E-38	0.79

29830	399532	401276	2.47E-104	0.77
29830	404830	405269	3.73E-30	0.75
29830	405516	407241	8.91E-160	0.91
29830	407631	408442	4.29E-34	0.89
29830	408656	410403	7.00E-55	0.7
29830	422693	423132	2.53E-27	0.9
29830	423347	423666	5.66E-65	0.9
29830	423963	425892	1.04E-176	0.9
29830	426191	426496	1.73E-30	0.95
29830	428373	429874	1.68E-63	0.81
29830	435378	435713	2.47E-20	0.8
29830	436070	436538	1.45E-27	0.79
29830	448307	449153	9.05E-62	0.73
29830	463311	463984	1.52E-33	0.86
29830	464705	466220	5.95E-58	0.75
29830	468395	469543	1.35E-50	0.86
29830	470637	471142	4.55E-24	0.86
29830	473953	474797	2.45E-50	0.85
29830	480710	482217	4.75E-52	0.64
29830	495048	495425	4.31E-18	0.88
29830	500046	500362	1.32E-16	0.85
29830	501317	501693	7.06E-13	0.66
29830	513509	513947	1.31E-14	0.82
29830	538099	538887	1.93E-42	0.87
29830	559608	560154	1.16E-45	0.88
29830	560416	561005	4.82E-53	0.77
29830	572741	573200	3.38E-28	0.82
29830	577910	578532	2.72E-63	0.83
29830	588524	589066	5.28E-33	0.8
29830	590845	591620	1.32E-52	0.79
29830	612891	613882	2.34E-81	0.89
29830	621183	621464	6.03E-22	0.87
29830	633037	633317	1.18E-15	0.95
29830	642564	643097	7.83E-29	0.82
29830	660633	660888	2.85E-07	0.76
29831	5833	6332	7.11E-34	0.83
29831	7689	8054	1.57E-19	0.78
29832	255	668	5.14E-23	0.84
29832	34959	35269	1.20E-15	0.95
29832	36281	36744	1.21E-18	0.77
29832	38187	38855	2.45E-29	0.87
29832	39917	40159	4.90E-11	0.85
29832	42792	43737	3.02E-73	0.96
29832	46069	47150	5.93E-118	0.94
29832	52453	53384	6.14E-55	0.6
29832	53671	54255	3.68E-22	0.61
29832	59728	60721	6.86E-61	0.74
29832	123366	123785	3.03E-21	0.89
29832	127310	127630	4.85E-13	0.75
29832	141001	141242	1.64E-16	0.91
29832	143869	144135	1.55E-04	0.89
29832	143996	144388	3.06E-04	0.85
29832	145431	145634	1.04E-26	0.94

29833	6555	6833	5.14E-05	0
29834	13571	13929	6.09E-27	0.6
29834	42219	42420	2.08E-06	0.79
29834	59460	59918	5.34E-08	0.85
29834	62228	62747	1.40E-10	0.89
29834	80182	80453	1.66E-07	0.82
29834	93851	94122	9.37E-06	0.87
29834	111511	111788	1.36E-09	0.84
29835	19443	19761	1.91E-31	0.96
29835	20355	22100	4.85E-101	0.92
29835	90368	91156	1.14E-80	0.96
29835	91654	92708	2.74E-62	0.83
29835	96029	97041	7.58E-51	0.78
29835	137211	137566	2.61E-27	0.86
29835	148462	148704	1.52E-21	0.87
29835	159515	159977	3.14E-13	0.84
29835	192903	193185	7.45E-09	0.75
29835	194343	195532	2.78E-22	0.6
29835	225065	225317	2.04E-07	0.77
29835	239057	239380	3.53E-26	0.79
29835	277282	278336	2.10E-36	0.6
29835	286879	287333	9.57E-13	0.81
29835	305923	306681	2.59E-63	0.8
29835	306948	307708	5.48E-41	0.73
29835	328427	329626	3.34E-68	0.88
29836	21429	21811	1.33E-21	0.88
29836	22704	23422	3.27E-15	0.81
29836	26595	26962	1.91E-35	0.94
29836	27226	27758	8.32E-33	0.83
29836	34146	34738	8.05E-74	0.9
29836	64570	66390	2.36E-112	0.83
29836	66614	67183	1.51E-21	0.93
29836	77967	78261	5.17E-19	0.85
29836	83812	84672	1.26E-31	0.79
29836	97596	97902	6.23E-07	0.7
29836	112654	113308	7.88E-37	0.95
29836	144260	144649	1.58E-23	0.9
29836	169631	170304	8.66E-77	0.96
29836	197575	198156	3.94E-07	0.72
29836	199810	200210	2.79E-13	0.74
29836	200504	200767	2.65E-07	0.66
29836	201123	201379	1.16E-25	0.69
29836	230987	231412	2.97E-06	0.76
29836	271944	272205	8.75E-16	0.82
29836	272572	273022	1.77E-24	0.94
29836	275690	276125	1.98E-21	0.96
29836	295607	295822	1.51E-15	0.72
29836	336629	337674	2.44E-60	0.92
29836	337891	338312	3.16E-10	0.72
29836	346079	346673	2.28E-21	0.86
29836	350258	351150	1.02E-48	0.79
29836	374712	374939	5.97E-31	0.8
29836	389608	390691	1.44E-49	0.91

29836	438096	438384	6.99E-21	0.91
29836	440509	440866	8.15E-36	0.91
29836	451752	452416	2.43E-31	0.88
29836	452810	453239	5.31E-23	0.87
29836	453589	453873	7.95E-15	0.78
29836	455265	456123	7.23E-23	0.8
29837	3744	4194	5.47E-05	1
29837	34761	35229	1.54E-06	0.86
29837	44761	45006	6.32E-06	0.82
29837	70154	70617	2.11E-04	1
29837	72302	72534	5.12E-05	0.84
29837	82082	82296	1.47E-07	0.81
29837	132564	132775	2.18E-08	0.7
29837	167153	167623	1.49E-19	0.81
29837	172977	173243	3.88E-16	0.96
29837	189979	190203	9.40E-17	0.91
29838	391	832	2.09E-39	0.93
29838	3340	3589	4.35E-29	0.9
29838	4190	4971	4.63E-62	0.93
29838	6616	7764	2.37E-76	0.75
29838	36061	36594	4.08E-34	0.73
29838	36802	37115	2.28E-13	0.78
29838	37318	37628	4.83E-48	0.95
29838	37854	38132	1.09E-12	0.8
29838	44120	44525	1.03E-23	0.67
29838	148148	149941	1.71E-67	0.69
29838	152662	153326	1.15E-100	0.93
29838	154077	154287	1.63E-18	0.9
29838	155166	155603	2.89E-34	0.65
29838	183206	184122	2.61E-70	0.83
29838	184354	185140	5.15E-62	0.9
29838	214856	215114	2.18E-13	0.82
29838	226960	228209	1.38E-55	0.87
29838	229941	230971	2.89E-41	0.95
29838	231185	231477	2.78E-35	0.88
29838	232084	232370	1.12E-22	0.82
29838	232873	233350	9.32E-34	0.87
29838	236873	237990	2.64E-37	0.9
29838	238448	239177	7.05E-44	0.8
29838	239921	240649	3.56E-42	0.88
29838	243569	244252	4.14E-39	0.93
29838	247071	247375	5.79E-13	0.94
29838	253780	255341	6.14E-69	0.84
29838	256290	257102	5.04E-27	0.62
29838	257838	258440	2.63E-27	0.9
29838	258645	259162	2.41E-32	0.89
29838	260092	260541	1.82E-35	0.93
29838	260898	262014	8.20E-65	0.87
29838	262273	263443	6.02E-59	0.94
29838	269643	270003	1.21E-17	0.82
29838	271862	272661	1.97E-54	0.84
29838	275584	275929	1.89E-36	0.83
29838	321955	322271	2.00E-09	0.75

29838	348164	348823	8.95E-29	0.9
29838	357464	357946	4.83E-15	0.86
29838	388842	389096	2.21E-05	0.86
29838	395276	395514	1.43E-10	0.78
29838	482841	483437	3.49E-34	0.71
29838	483745	483960	7.76E-17	0.87
29838	484165	484720	2.37E-43	0.91
29838	489138	489770	3.96E-36	0.91
29838	497074	497291	1.57E-15	0.81
29838	497653	498207	2.00E-22	0.72
29838	498824	500172	1.20E-58	0.84
29838	506193	507440	1.89E-104	0.87
29838	510434	510864	1.82E-14	0.82
29838	512489	513309	7.40E-19	0.85
29838	513623	514176	4.08E-36	0.86
29838	514733	515280	4.62E-41	0.92
29838	538937	539199	1.33E-06	0.99
29838	547823	548694	1.23E-12	0.78
29838	549306	550066	9.42E-46	0.94
29838	552358	553762	6.84E-24	0.83
29839	48117	49326	1.00E-112	0.89
29839	49651	50051	4.64E-61	0.98
29839	50725	51136	2.43E-21	0.81
29839	67997	68288	1.66E-34	0.97
29839	83266	84572	1.42E-179	0.94
29839	97730	98443	1.74E-42	0.92
29839	118995	119333	1.55E-28	1
29839	122779	123174	2.12E-26	0.85
29839	129626	130089	4.88E-33	0.94
29839	143599	143848	2.44E-12	0.77
29839	143647	143905	4.23E-15	0.8
29839	177992	178707	1.46E-80	0.97
29839	179271	179759	1.28E-19	0.93
29839	181382	182722	6.07E-112	0.91
29839	206892	207291	1.86E-12	0.63
29839	216012	216433	1.65E-25	0.89
29839	220984	221389	9.99E-10	0.71
29839	223728	224024	7.56E-19	0.95
29839	229000	229336	8.73E-21	0.85
29839	229772	230118	1.09E-26	0.96
29839	231085	231357	5.81E-11	0.9
29839	233410	235113	1.56E-102	0.92
29839	319922	320249	1.12E-52	0.98
29839	328307	328608	7.33E-13	0.74
29839	328868	329362	1.72E-46	0.92
29839	329619	331393	4.90E-107	0.96
29839	331756	333010	1.74E-110	0.95
29839	333611	334875	2.88E-124	0.94
29839	335924	336356	5.98E-29	0.88
29839	372984	373370	7.95E-23	0.66
29839	385976	386383	1.10E-28	0.96
29839	387203	388201	5.15E-26	0.93
29839	389106	390360	1.10E-74	0.91

29839	428866	429269	1.40E-05	0.97
29839	446019	446382	5.97E-10	0.86
29839	456188	456799	1.36E-36	0.94
29839	458703	459015	1.95E-10	0.64
29839	480519	481040	8.15E-31	0.94
29839	498801	499621	9.57E-44	0.93
29839	501662	502328	2.82E-61	0.92
29839	503621	504404	2.68E-59	0.67
29839	504646	504973	9.66E-39	0.76
29839	505285	506625	1.70E-92	0.93
29839	509807	510301	3.04E-15	0.85
29839	542965	543374	6.94E-13	0.92
29839	543896	544804	8.15E-07	0.88
29839	576275	576663	1.11E-04	0.81
29839	576314	576786	1.59E-04	0.8
29840	12166	12693	3.30E-16	0.84
29840	49529	50167	5.36E-30	0.7
29840	54346	54684	1.18E-15	0.94
29840	55123	55779	3.83E-26	0.98
29840	56006	56511	1.56E-35	0.96
29840	69280	69798	8.54E-36	0.77
29840	78067	80851	3.20E-116	0.9
29840	87064	87427	1.28E-13	0.8
29840	88255	89372	6.21E-216	0.91
29840	90493	90755	7.12E-31	0.94
29840	109953	110321	2.35E-11	0.8
29840	120028	120466	1.13E-21	0.87
29840	158923	159393	1.89E-59	0.65
29840	159669	159890	9.91E-17	0.84
29840	160148	162665	2.15E-132	0.77
29840	172351	173099	1.21E-41	0.91
29840	175993	176771	2.47E-39	0.84
29840	177034	177612	5.44E-53	0.83
29840	192847	193199	2.45E-23	0.81
29840	207613	208763	2.55E-39	0.84
29840	213310	213620	4.43E-25	0.67
29840	227884	228232	2.79E-42	0.96
29840	239235	239864	1.47E-22	0.78
29840	240461	241464	4.92E-136	0.87
29840	261427	262548	1.93E-89	0.65
29840	262841	263188	2.95E-48	0.9
29840	263958	264472	2.28E-45	0.91
29840	264688	265471	2.61E-82	0.91
29840	267205	268363	1.30E-121	0.9
29840	307923	308387	1.33E-13	0.68
29840	309037	309254	4.26E-11	0.74
29840	312889	314104	4.31E-32	0.88
29840	319976	320673	6.16E-28	0.91
29840	337629	338455	2.63E-37	0.86
29840	341248	342533	5.92E-73	0.89
29840	343365	343632	6.75E-46	0.82
29840	344505	344790	1.08E-35	0.83
29840	359275	359940	3.43E-41	0.91

29840	372675	373217	3.86E-13	0.64
29840	373836	374350	5.45E-39	0.92
29840	375455	375919	2.30E-38	0.95
29840	387771	388269	1.29E-19	0.87
29840	401203	401426	8.38E-13	0.84
29840	401711	402147	6.92E-25	0.92
29840	402401	402787	8.30E-18	0.92
29840	405255	406688	1.50E-76	0.86
29840	413833	414987	2.87E-54	0.86
29840	428754	429600	1.24E-89	0.92
29840	429854	430825	7.78E-105	0.96
29840	439267	439999	1.98E-46	0.89
29840	440278	442713	8.20E-237	0.84
29840	443034	443571	2.30E-46	0.84
29840	462201	462553	1.36E-33	0.83
29840	462812	463858	2.24E-91	0.78
29840	484548	484767	9.25E-08	0.84
29840	498161	498438	2.96E-45	0.93
29840	504346	505383	9.18E-52	0.8
29840	531636	531871	1.48E-39	0.94
29840	532160	532527	4.74E-46	0.92
29840	534746	534999	4.17E-35	0.71
29841	17483	17736	7.61E-09	0.7
29841	20358	21043	1.91E-33	0.88
29841	25446	25977	3.47E-46	0.86
29841	26286	26516	8.36E-40	0.74
29841	35555	36238	9.58E-28	0.87
29841	41031	41435	1.70E-53	0.84
29841	42331	42871	2.93E-53	0.94
29841	43397	43706	9.63E-32	0.8
29841	45952	46323	7.22E-14	0.88
29841	50347	50787	2.64E-26	0.77
29841	64007	64215	8.61E-18	0.84
29841	79439	81996	1.77E-107	0.81
29841	82527	82924	1.75E-26	0.83
29841	92537	92881	3.34E-06	0.62
29841	107657	108027	8.63E-20	0.88
29841	126558	126968	3.80E-13	0.88
29841	128296	128906	2.63E-56	0.87
29841	129197	129405	1.08E-57	0.91
29841	172038	172422	1.31E-44	0.88
29841	187679	188231	4.54E-79	0.91
29841	275973	276450	1.87E-38	0.92
29841	286035	287210	4.61E-69	0.69
29841	327488	329050	4.37E-61	0.83
29841	337723	338033	6.77E-26	0.87
29841	373557	374761	2.57E-68	0.75
29841	375427	376188	3.40E-81	0.8
29841	382719	383668	8.75E-31	0.74
29841	392505	392727	4.33E-11	0.9
29841	393337	393705	2.78E-16	0.81
29841	403031	404495	1.78E-63	0.71
29841	405675	406917	8.98E-44	0.73

29841	425180	426141	9.35E-55	0.89
29841	434356	434603	7.77E-23	0.81
29841	445101	445534	1.31E-15	0.83
29841	447421	447957	5.39E-31	0.76
29841	456914	457227	4.05E-16	0.77
29841	460714	460963	1.94E-20	0.84
29841	477613	478134	1.78E-17	0.82
29841	478579	479283	3.03E-49	0.89
29841	507396	507731	1.72E-26	0.85
29841	530734	531936	6.15E-103	0.72
29841	532217	532441	3.96E-12	0.84
29841	568149	568488	4.35E-06	0.85
29841	575983	576837	5.38E-35	0.8
29841	595031	595644	8.25E-21	0.6
29841	604854	605641	3.69E-49	0.86
29841	612762	612974	4.42E-21	0.9
29841	613961	614581	6.53E-44	0.85
29841	616146	616601	8.34E-21	0.69
29841	641813	642174	3.60E-17	0.83
29841	642377	643099	1.99E-24	0.87
29841	644150	644500	9.11E-24	0.78
29841	661036	662236	7.16E-58	0.94
29841	664078	665534	1.31E-198	0.93
29841	695743	696151	1.51E-16	0.78
29841	697721	698151	1.12E-22	0.82
29841	708819	709229	5.19E-13	0.86
29841	717003	717544	1.36E-17	0.62
29841	740585	741091	2.45E-67	0.9
29841	755450	756025	1.53E-23	0.87
29841	762274	762678	1.86E-08	0.82
29841	782920	783146	1.37E-33	0.81
29841	800096	800603	2.01E-13	0.9
29841	854632	858724	4.47E-297	0.9
29841	870513	870983	1.12E-23	0.81
29841	885858	887667	1.15E-61	0.83
29841	909747	910033	1.44E-19	0.83
29841	911124	912012	1.20E-48	0.75
29841	912901	913936	1.64E-56	0.86
29841	914579	914936	4.69E-18	0.86
29841	928168	928528	6.30E-16	0.91
29841	947602	948808	5.65E-72	0.83
29841	1054540	1056195	7.95E-58	0.64
29841	1070629	1070904	1.68E-16	0.73
29841	1078510	1079660	1.29E-40	0.81
29841	1082569	1083022	1.40E-19	0.74
29841	1085898	1086298	1.07E-32	0.72
29841	1161614	1162773	5.21E-59	0.67
29841	1183431	1184552	1.48E-35	0.65
29841	1186950	1187456	6.21E-67	0.88
29841	1187711	1188515	2.98E-42	0.9
29841	1188767	1189553	2.88E-103	0.91
29841	1202593	1203007	7.62E-39	0.91
29841	1203303	1203923	3.02E-21	0.68

29842	9956	10519	9.13E-16	0.79
29842	13003	13771	2.13E-34	0.87
29842	17884	18235	2.30E-26	0.96
29842	20725	21057	1.02E-45	0.92
29842	27805	28334	2.94E-29	0.89
29842	47712	48447	4.17E-83	0.9
29842	49721	50265	1.40E-19	0.84
29842	53580	53874	1.69E-11	0.92
29842	54106	54378	2.27E-12	0.7
29842	63473	63720	4.22E-10	0.78
29842	72420	72879	5.76E-40	0.7
29842	81727	82056	1.97E-22	0.66
29842	170667	171078	1.74E-16	0.77
29842	173929	174314	1.40E-13	0.69
29842	184060	184680	2.92E-22	0.86
29842	185121	185416	9.30E-09	0.75
29842	187676	189298	2.41E-116	0.82
29842	189670	190025	1.24E-15	0.82
29842	199621	200092	2.73E-30	0.85
29842	200546	200903	1.30E-25	0.93
29842	213944	214448	3.66E-31	0.86
29842	214784	215736	3.38E-44	0.87
29842	221238	221656	7.17E-20	0.79
29842	242188	243309	6.22E-64	0.63
29842	243710	244290	3.00E-27	0.78
29842	248104	249302	2.06E-40	0.84
29842	279812	282219	5.08E-85	0.66
29842	287335	287623	8.20E-41	0.86
29842	287833	288356	2.61E-21	0.86
29842	314054	314509	2.49E-16	0.7
29842	320786	321979	1.20E-76	0.91
29842	338139	338601	4.11E-22	0.87
29842	341682	342863	8.64E-46	0.81
29842	348592	349585	3.27E-84	0.93
29842	355168	355532	2.53E-20	0.8
29842	361113	361868	2.75E-72	0.92
29842	362291	362742	4.49E-37	0.94
29842	363495	363719	1.57E-24	1
29842	364522	365144	5.18E-48	0.92
29842	385371	387815	2.21E-123	0.89
29842	407630	408054	5.92E-21	0.72
29842	409780	410273	5.17E-30	0.78
29842	425996	426867	4.43E-49	0.9
29842	427990	428669	1.92E-34	0.8
29842	429872	430733	1.11E-27	0.76
29842	441165	442066	3.54E-59	0.89
29842	451388	453233	1.11E-75	0.76
29842	454506	454898	1.99E-09	0.78
29842	470401	470937	1.27E-25	0.87
29842	505588	505862	5.51E-13	0.74
29842	540138	540719	1.09E-24	0.82
29842	541530	541736	6.80E-31	0.9
29842	542184	542907	1.77E-35	0.76

29842	550163	550526	4.12E-44	0.78
29842	555304	555611	5.02E-31	0.83
29842	558310	559400	5.73E-76	0.82
29842	563273	564044	1.59E-34	0.81
29842	576935	578337	1.56E-52	0.76
29842	584933	585410	1.01E-26	0.72
29842	595553	597431	4.45E-114	0.89
29842	597699	597998	1.39E-29	0.86
29842	623091	623815	5.46E-38	0.81
29842	624536	625738	3.81E-67	0.69
29842	629750	630228	1.01E-14	0.64
29842	644570	644940	1.27E-12	0.61
29842	645215	645565	3.52E-35	0.84
29842	647774	648686	2.34E-68	0.84
29842	680169	680790	2.62E-54	0.82
29842	707989	708457	4.92E-42	0.92
29842	714303	715450	8.96E-63	0.88
29842	757022	757399	1.35E-08	0.75
29842	819446	820054	1.07E-32	0.78
29842	854105	854388	1.05E-06	0.77
29842	861811	862028	4.86E-06	0.94
29842	867229	867589	1.02E-59	0.66
29842	880263	881212	4.25E-21	0.66
29842	896994	897622	1.05E-26	0.81
29842	948058	948537	1.40E-18	0.83
29842	978509	978861	8.62E-31	0.73
29842	999667	1000059	1.08E-37	0.92
29842	1011499	1011728	1.12E-07	0.85
29842	1054719	1055048	1.55E-26	0.68
29842	1071564	1072553	2.94E-50	0.79
29843	7779	8197	2.11E-34	0.97
29843	10829	11310	1.46E-35	0.93
29843	49628	50356	6.62E-22	0.8
29843	52921	53418	5.01E-32	0.95
29843	54038	54342	1.71E-22	0.86
29843	95292	95675	5.26E-21	0.84
29843	101269	101822	1.48E-18	0.82
29843	155908	156185	1.41E-06	1
29843	176750	177337	3.70E-54	0.94
29843	206055	206387	2.53E-30	0.92
29843	244114	244640	2.19E-46	0.95
29843	244868	245223	7.03E-18	0.76
29843	245577	245908	1.36E-26	0.8
29843	258037	258512	1.65E-31	0.94
29843	325889	326188	7.36E-51	0.9
29843	327101	327349	1.07E-34	0.97
29843	330415	330704	2.42E-18	0.88
29843	331285	331601	3.00E-26	0.95
29843	335924	336303	1.56E-35	0.95
29843	336574	337213	1.73E-61	0.97
29843	337685	339304	1.94E-161	0.94
29844	40949	41380	5.49E-42	0.88
29844	41590	41822	3.26E-27	0.8

29844	42065	43024	3.38E-56	0.63
29844	80843	81361	8.14E-38	0.84
29844	82485	82717	7.82E-28	0.86
29844	104000	104600	3.54E-59	0.84
29844	144536	144900	3.15E-16	0.76
29844	148526	148765	4.15E-23	0.96
29844	149774	150297	2.11E-45	0.85
29844	151585	152521	6.17E-85	0.88
29844	166441	166696	1.84E-10	0.8
29844	185482	186031	1.80E-38	0.69
29844	188261	188901	5.14E-79	0.93
29844	190550	190966	2.10E-32	0.87
29844	241029	243379	1.33E-87	0.81
29844	275419	276347	1.03E-33	0.86
29844	281007	281847	1.59E-41	0.84
29844	287967	288328	9.65E-18	0.66
29844	306030	306624	3.16E-49	0.7
29844	400661	401627	1.67E-82	0.88
29844	401905	402146	9.77E-30	0.84
29844	410507	410834	2.52E-35	0.94
29844	411043	411636	4.67E-22	0.76
29844	445286	445962	1.09E-30	0.82
29844	464139	464653	2.30E-25	0.87
29844	538464	539331	2.06E-37	0.75
29844	540161	541110	1.28E-88	0.69
29844	565315	565780	2.52E-22	0.6
29844	565993	566460	4.73E-27	0.75
29844	566679	567743	7.21E-102	0.83
29844	578912	579197	1.02E-29	0.89
29844	594118	594534	5.97E-22	0.78
29844	611564	612031	3.65E-30	0.85
29844	613199	614320	3.49E-27	0.78
29844	616592	617444	6.33E-39	0.68
29844	629098	629335	9.61E-15	0.84
29844	648472	648852	6.00E-10	0.74
29844	651722	652134	1.64E-28	0.71
29844	652411	653813	1.02E-97	0.86
29844	654355	654779	3.07E-25	0.85
29844	674179	674847	2.86E-45	0.87
29844	679815	680969	3.66E-39	0.82
29844	687415	687793	2.71E-37	0.83
29844	714763	715461	3.30E-37	0.83
29844	716613	717604	9.75E-27	0.78
29844	745871	746156	7.71E-38	0.95
29844	751511	752013	1.73E-10	0.74
29844	752325	752936	4.61E-46	0.7
29844	804849	805504	4.21E-45	0.94
29844	807713	809589	2.21E-78	0.74
29844	813470	815235	9.88E-52	0.67
29844	847202	847409	3.48E-33	0.91
29844	886834	887132	4.08E-12	0.78
29844	897868	898757	1.53E-112	0.77
29844	967294	967541	4.56E-11	0.81

29844	979832	980046	2.41E-07	0.88
29844	1018738	1019408	1.03E-49	0.76
29844	1031366	1031962	5.81E-17	0.84
29844	1039643	1040700	6.06E-81	0.66
29844	1048171	1048460	1.18E-15	0.68
29844	1051917	1052338	3.24E-23	0.86
29844	1089376	1089893	6.19E-32	0.87
29844	1097282	1097751	9.95E-57	0.88
29844	1145914	1146347	7.78E-21	0.75
29844	1157382	1157940	1.21E-16	0.79
29844	1158024	1158228	1.53E-17	0.79
29844	1159974	1160399	3.17E-11	0.8
29844	1162835	1163272	2.13E-26	0.79
29844	1165210	1165521	2.31E-23	0.83
29844	1175142	1175867	6.50E-23	0.77
29844	1183772	1184029	2.35E-29	0.91
29844	1205412	1206135	8.68E-64	0.91
29844	1206707	1207280	1.75E-28	0.93
29844	1226237	1226497	8.67E-24	0.91
29844	1226773	1227065	1.30E-30	0.92
29844	1227294	1227904	4.07E-94	0.93
29845	11095	11439	1.12E-04	0.86
29845	18221	18499	1.05E-18	0.84
29845	24687	25646	8.61E-29	0.86
29845	36379	36850	2.10E-72	0.81
29845	37144	37925	6.21E-37	0.82
29845	40862	41500	6.85E-39	0.92
29845	84635	85037	6.16E-17	0.84
29845	92506	92974	2.22E-14	0.77
29845	97063	97441	1.35E-32	0.93
29845	99142	99669	5.11E-10	0.81
29846	5811	6021	1.14E-24	0.88
29846	29659	30154	2.31E-23	0.88
29846	41163	41720	1.60E-33	0.84
29846	42366	42805	4.54E-15	0.82
29846	45149	45827	4.78E-37	0.88
29846	46079	47011	6.79E-48	0.84
29846	49486	50013	4.26E-19	0.85
29846	57180	58618	1.23E-88	0.87
29846	89775	90030	1.10E-20	0.85
29846	114979	115274	2.64E-32	0.84
29847	2412	2863	1.14E-07	0.76
29847	14562	14847	6.49E-14	0.88
29847	64037	64268	8.62E-34	0.9
29847	67302	67907	1.23E-35	0.89
29847	68115	68700	9.16E-30	0.68
29847	68982	69333	1.40E-12	0.74
29847	73905	74267	3.30E-33	0.9
29847	75022	75338	2.60E-61	0.94
29847	93970	94547	6.62E-26	0.83
29847	97459	98128	9.56E-18	0.98
29847	98984	99696	4.83E-34	0.92
29847	104480	105935	1.11E-132	0.92

29847	129326	129649	4.29E-13	0.78
29847	154946	155419	1.34E-10	0.64
29848	14465	14810	7.16E-23	0.87
29848	26780	27487	7.41E-55	0.84
29848	40374	40575	1.46E-09	0.91
29848	48127	48621	1.24E-23	0.87
29848	48896	49302	1.52E-13	0.79
29848	60113	60579	1.18E-26	0.77
29848	104089	104773	2.15E-22	0.71
29848	110797	111113	6.70E-19	0.81
29848	151061	152666	3.47E-83	0.72
29848	163161	163524	1.87E-30	0.74
29848	163792	164938	3.85E-75	0.68
29848	250560	251159	2.34E-28	0.75
29848	277693	278199	1.19E-31	0.63
29848	281346	282556	4.82E-59	0.79
29848	282788	283248	5.07E-46	0.93
29848	284295	285289	1.40E-50	0.9
29848	302312	302733	1.91E-09	0.78
29848	317343	317561	2.64E-25	0.81
29848	319233	319599	1.83E-26	0.79
29848	320089	320523	4.37E-26	0.9
29848	339072	339928	3.05E-32	0.8
29848	341416	342861	1.43E-43	0.7
29848	360099	361921	4.81E-115	0.69
29848	374076	374987	5.67E-37	0.69
29848	413462	413906	8.84E-16	0.76
29848	416617	418218	2.94E-88	0.87
29848	419430	419883	8.61E-36	0.92
29848	425338	425759	1.23E-16	0.82
29848	426659	427062	1.91E-11	0.86
29848	428949	429213	3.45E-14	0.79
29848	448494	450498	7.17E-87	0.77
29848	455839	456728	1.52E-43	0.83
29848	460799	461935	1.27E-83	0.64
29848	462230	462494	2.42E-31	0.85
29848	471312	471720	6.22E-29	0.94
29848	480889	482093	5.12E-117	0.88
29848	490245	490546	1.09E-32	0.88
29848	498753	499861	5.14E-69	0.87
29848	512733	513918	1.24E-83	0.89
29848	514281	514727	3.10E-12	0.82
29848	515404	516101	2.37E-34	0.88
29848	582204	582725	2.74E-33	0.88
29848	582995	584431	5.19E-80	0.87
29848	586715	587784	1.89E-100	0.88
29848	587997	588370	1.01E-51	0.96
29848	588574	588896	3.89E-39	0.79
29848	592021	593172	1.89E-26	0.7
29848	594100	594656	8.02E-13	0.74
29848	597028	599135	5.36E-111	0.69
29848	603587	604025	4.42E-20	0.67
29848	626285	626686	5.18E-35	0.87

29848	626965	627209	1.43E-10	0.79
29848	648033	649215	1.03E-50	0.83
29848	651771	652091	3.44E-23	0.78
29848	655446	655718	9.80E-90	0.87
29848	658246	658507	1.65E-35	0.9
29848	664021	665246	2.09E-100	0.92
29848	666047	667514	8.86E-92	0.84
29848	668224	669067	3.14E-32	0.84
29848	669311	669814	1.03E-59	0.91
29848	670132	671189	2.35E-68	0.82
29848	671476	671976	2.36E-43	0.64
29848	682758	683653	9.46E-79	0.88
29848	683925	684516	3.56E-68	0.86
29848	711348	711554	2.89E-35	0.66
29848	766728	767016	1.04E-17	0.79
29848	817503	818041	2.98E-32	0.6
29848	818378	819741	5.03E-111	0.79
29848	830194	830411	2.25E-39	0.83
29848	836383	837233	3.77E-45	0.76
29848	852602	852998	1.59E-55	0.9
29848	865215	865780	2.70E-29	0.89
29848	866195	867034	1.89E-26	0.73
29848	873139	873591	3.92E-16	0.84
29848	884009	885244	1.12E-73	0.92
29848	888086	888817	1.46E-52	0.79
29848	919916	920353	2.82E-21	0.79
29848	921114	922014	6.70E-72	0.87
29848	929821	930158	5.99E-35	0.73
29848	932595	933120	2.65E-29	0.81
29848	932731	933377	1.22E-43	0.81
29848	964099	965694	6.33E-36	0.61
29848	974949	975992	2.10E-51	0.63
29848	976596	976935	7.28E-29	0.94
29848	1022308	1023241	2.74E-47	0.81
29848	1022420	1023554	4.39E-53	0.83
29848	1032585	1032984	8.75E-14	0.82
29848	1038313	1038561	1.44E-19	0.71
29848	1039562	1039768	1.32E-17	0.83
29848	1043257	1044023	5.49E-25	0.73
29848	1050136	1050589	8.99E-17	0.8
29848	1061342	1061671	1.02E-10	0.76
29848	1064548	1064857	2.69E-24	0.79
29848	1112676	1113908	1.28E-73	0.7
29848	1116267	1116545	5.41E-40	0.86
29848	1118020	1118641	3.48E-59	0.94
29848	1119936	1120789	6.44E-35	0.77
29848	1121010	1121879	5.38E-50	0.63
29848	1129711	1130167	6.56E-39	0.75
29848	1130374	1130719	2.38E-20	0.8
29848	1143471	1144727	1.05E-83	0.85
29848	1166860	1168134	2.13E-51	0.81
29848	1182023	1182897	1.96E-105	0.86
29848	1184912	1185139	2.78E-15	0.8

29848	1186126	1186807	3.56E-44	0.86
29848	1188770	1189122	6.58E-14	0.82
29848	1193748	1194566	4.85E-62	0.9
29848	1221824	1223195	5.09E-37	0.67
29848	1223476	1223777	1.52E-19	0.81
29848	1247719	1248300	1.16E-24	0.75
29848	1249267	1250526	9.37E-33	0.7
29848	1268031	1269008	7.10E-36	0.84
29848	1296574	1297082	2.83E-61	0.91
29848	1304618	1305124	4.72E-27	0.83
29848	1322975	1323822	1.31E-38	0.83
29848	1324746	1325428	9.46E-65	0.88
29848	1327665	1329041	2.85E-98	0.88
29848	1330314	1330947	1.47E-39	0.81
29848	1339238	1340963	9.85E-80	0.76
29848	1341625	1342133	6.52E-46	0.78
29848	1362946	1363507	6.02E-16	0.78
29848	1369683	1370261	2.27E-47	0.92
29848	1371082	1371569	2.06E-30	0.94
29848	1372053	1372417	1.08E-32	0.76
29848	1383652	1383874	3.46E-29	0.92
29848	1390562	1392306	5.84E-251	0.85
29848	1418392	1419124	2.34E-39	0.81
29848	1419357	1419836	7.22E-26	0.84
29848	1425867	1427917	2.53E-71	0.66
29848	1428515	1429028	6.00E-42	0.86
29848	1429682	1430547	1.65E-30	0.76
29848	1461482	1461857	7.68E-23	0.68
29848	1464626	1464945	8.94E-28	0.79
29848	1509669	1510050	5.86E-18	0.61
29848	1515652	1516106	8.82E-43	0.77
29848	1562441	1563482	9.37E-46	0.63
29848	1563762	1564183	2.22E-40	0.83
29848	1568732	1569465	8.81E-54	0.87
29848	1569733	1570474	1.46E-41	0.87
29848	1590748	1591016	1.01E-65	0.96
29848	1591247	1591666	3.18E-23	0.78
29848	1601848	1602730	5.76E-50	0.7
29848	1606010	1606669	2.58E-27	0.72
29848	1606914	1607252	1.00E-11	0.8
29848	1608995	1609793	1.64E-81	0.85
29849	41532	42040	2.35E-09	0.86
29849	42040	42267	2.11E-04	0.92
29849	65866	66308	1.96E-22	0.96
29849	68593	68915	6.22E-05	0.8
29849	80718	81344	5.42E-63	0.89
29849	122308	122883	6.42E-10	0.81
29849	145079	145782	8.70E-14	0.81
29849	145303	145846	3.09E-12	0.78
29849	146473	146735	1.03E-08	0.85
29849	158861	159246	5.82E-05	1
29849	250025	250243	3.55E-06	0.98
29849	260112	260539	1.81E-11	0.91

29849	272598	272866	9.77E-28	0.93
29849	275743	276817	1.53E-111	0.97
29849	305352	306079	1.03E-29	0.97
29849	309250	309771	2.83E-05	0.82
29849	327456	327865	6.84E-18	0.83
29849	350736	351322	2.54E-25	0.93
29849	352423	352884	5.39E-31	0.79
29849	353862	354279	7.43E-06	0.67
29849	355755	357269	5.52E-46	0.73
29849	359691	360186	4.97E-09	0.78
29849	449329	449920	2.60E-05	0.94
29849	449748	450242	1.76E-07	0.9
29849	452173	452597	1.96E-04	0.95
29849	465084	465289	1.05E-08	0.85
29849	470987	471235	8.65E-11	0.88
29849	473206	473822	7.53E-17	0.95
29849	645252	645894	4.91E-08	1
29849	648381	648650	1.27E-04	0.97
29849	657346	657927	4.73E-06	0.91
29849	691574	691859	4.16E-41	0.91
29849	700430	701079	3.71E-25	0.76
29849	821768	821982	1.26E-10	0.97
29849	831034	831272	1.30E-05	0.92
29849	846262	846836	1.03E-13	1
29849	867184	867741	1.54E-04	0.89
29849	902045	902723	7.18E-08	0.9
29849	925399	925812	4.98E-11	0.98
29849	1015607	1016153	7.97E-04	0.78
29850	26990	27891	1.90E-52	0.83
29850	28607	28883	1.81E-32	0.82
29850	29155	30720	6.48E-82	0.87
29850	43222	43710	2.69E-19	0.8
29850	78095	78320	4.64E-24	0.88
29850	78887	79194	3.23E-25	0.83
29850	103061	103418	2.21E-47	0.84
29851	180	476	9.81E-22	0.9
29851	38052	38701	2.61E-71	0.91
29851	57415	57746	2.12E-20	0.74
29851	89613	93011	7.75E-111	0.84
29851	93753	94134	2.69E-51	0.92
29851	113105	113792	4.16E-43	0.87
29851	116837	119543	3.07E-292	0.75
29851	131627	131828	1.79E-17	0.66
29851	140146	141200	2.19E-63	0.74
29851	145986	146568	2.00E-33	0.84
29851	150056	151087	5.71E-49	0.77
29851	158993	159659	4.23E-30	0.79
29851	167145	168439	1.69E-34	0.82
29851	181692	182016	6.67E-45	0.8
29851	201886	202763	5.41E-42	0.64
29851	204076	204294	7.46E-14	0.8
29851	205413	205653	1.60E-25	0.91
29851	235491	236086	2.80E-18	0.72

29851	239423	239725	3.52E-38	0.89
29851	246698	247302	3.37E-19	0.81
29851	254350	255837	1.78E-67	0.84
29851	256340	256945	9.02E-12	0.8
29851	256561	256978	1.29E-10	0.8
29851	270466	270981	1.63E-32	0.94
29851	275674	276158	4.04E-28	0.83
29851	307538	308042	1.53E-49	0.87
29851	308820	309133	6.93E-43	0.91
29851	309376	310092	1.81E-46	0.89
29851	311009	312225	4.72E-82	0.9
29851	324485	324937	2.92E-13	0.8
29851	338266	338998	4.26E-36	0.75
29851	362600	362800	2.37E-21	0.8
29851	363543	364275	6.09E-46	0.85
29851	416242	416954	3.48E-46	0.61
29851	418682	419113	2.07E-14	0.79
29851	450193	451499	3.01E-107	0.85
29851	455453	455978	3.35E-30	0.68
29851	471222	471934	3.12E-46	0.84
29851	473267	473981	9.09E-23	0.76
29851	477324	477617	7.33E-22	0.97
29851	480909	481478	9.17E-42	0.93
29851	481716	483409	1.51E-107	0.95
29851	483725	486531	5.10E-212	0.86
29851	507625	508220	1.19E-16	0.91
29851	529905	530382	6.03E-17	0.62
29851	530817	531648	1.43E-61	0.87
29851	535150	536260	1.44E-36	0.69
29851	538152	539549	8.26E-68	0.77
29851	565080	567077	3.29E-91	0.89
29851	570619	571208	1.79E-27	0.65
29851	598755	599000	1.95E-14	0.71
29851	609947	610336	1.37E-20	0.84
29851	619551	619765	3.76E-16	0.91
29851	620481	621126	2.25E-53	0.87
29851	676423	676718	5.60E-24	0.91
29851	763046	764666	6.23E-105	0.78
29851	766343	767259	2.08E-75	0.91
29851	768168	768751	7.76E-29	0.89
29851	769259	769918	9.06E-45	0.83
29851	774004	775215	2.06E-100	0.91
29851	775453	776759	1.30E-131	0.91
29851	777518	778297	1.78E-28	0.8
29851	778537	778855	5.43E-20	0.77
29851	780879	781261	1.39E-16	0.72
29851	781725	781964	1.16E-58	0.85
29851	802676	803042	3.66E-34	0.65
29851	804264	805273	6.71E-38	0.65
29851	823717	825212	5.29E-104	0.91
29851	846373	846845	3.99E-13	0.77
29851	847821	848387	1.32E-22	0.87
29851	851773	852284	2.45E-38	0.87

29851	853435	854396	1.30E-67	0.61
29851	888827	889241	1.02E-32	0.76
29851	895822	896487	1.77E-95	0.97
29851	985634	989674	1.48E-299	0.86
29851	990137	990776	1.64E-44	0.91
29851	1009151	1009403	1.19E-24	0.81
29852	9124	9383	1.77E-07	0.79
29852	42046	42374	6.11E-07	0.73
29852	71865	72200	2.80E-12	0.92
29852	76119	76598	3.21E-05	0.88
29852	97015	97605	6.31E-07	0.93
29852	100443	100722	7.08E-17	0.98
29852	160607	161188	5.98E-14	1
29852	216460	217582	5.73E-51	0.84
29852	226470	226872	1.63E-03	0.87
29852	279404	280078	1.14E-07	0.96
29852	317294	318148	2.89E-73	0.88
29852	319549	319877	9.22E-41	0.93
29852	342078	342614	4.05E-04	0.71
29852	356342	356549	9.93E-13	0.98
29852	362222	362912	3.01E-21	0.82
29852	399628	399895	1.56E-05	0.88
29852	443042	443279	1.88E-28	0.95
29852	498046	498975	1.91E-15	0.91
29852	511832	512104	8.95E-11	0.81
29852	556033	556503	9.24E-06	0.9
29852	589239	589924	2.87E-16	0.81
29852	618331	618585	2.19E-10	0.9
29852	650888	651828	5.22E-80	0.96
29852	654808	655263	5.90E-58	0.87
29852	662041	662324	8.58E-15	0.87
29852	664628	664844	5.23E-54	0.92
29852	666343	666642	4.27E-31	0.91
29852	666947	667240	5.21E-58	0.96
29852	667616	667984	4.84E-40	0.88
29852	671324	671763	2.74E-64	0.95
29852	677512	678054	1.51E-09	0.82
29852	687419	687791	1.64E-11	0.88
29852	798107	798499	9.97E-12	0.96
29852	844306	844708	1.33E-04	0.89
29852	848805	849129	6.57E-07	0.8
29852	849466	849996	4.40E-08	0.89
29852	862062	863657	1.62E-21	0.81
29852	862531	863751	5.49E-17	0.81
29852	864920	865215	1.27E-19	0.93
29852	872454	872920	4.21E-19	0.92
29852	890672	891066	4.55E-54	0.96
29852	891401	891977	4.66E-66	0.93
29852	892181	892518	5.79E-30	0.94
29852	900935	901154	1.29E-15	0.77
29852	903936	904444	4.13E-25	0.83
29852	906822	907448	8.62E-21	0.85
29852	909761	911259	6.83E-124	0.82

29852	1030580	1030846	1.44E-30	0.97
29852	1031389	1031826	1.28E-22	0.95
29852	1057936	1058553	1.19E-22	0.75
29852	1064442	1064881	1.51E-33	0.84
29852	1073535	1074156	1.31E-38	0.8
29852	1073638	1074312	4.21E-41	0.8
29852	1122769	1123104	1.99E-04	0.89
29852	1157998	1158413	7.45E-21	0.94
29852	1171531	1171814	7.06E-24	0.71
29852	1180034	1180765	4.77E-24	0.82
29852	1181501	1182226	6.07E-45	0.91
29852	1185171	1185467	6.61E-30	0.96
29852	1185876	1186377	1.09E-60	0.96
29852	1225748	1226340	1.42E-11	0.97
29852	1266831	1267405	5.31E-19	0.61
29852	1267664	1269131	4.20E-115	0.87
29852	1273779	1274390	1.63E-41	0.9
29852	1275975	1276695	2.80E-37	0.91
29852	1277199	1278857	4.87E-56	0.82
29852	1279685	1280322	4.79E-46	0.89
29852	1341704	1341972	1.22E-02	0.71
29852	1402580	1402801	9.57E-11	0.75
29852	1406490	1406872	5.43E-18	0.9
29852	1408696	1409128	7.89E-25	0.92
29852	1455731	1456235	4.99E-46	0.93
29852	1626457	1627605	8.14E-108	0.89
29852	1746564	1748211	1.16E-88	0.86
29852	1767460	1768204	1.53E-09	0.82
29852	1768403	1768630	5.42E-04	0.94
29852	1790629	1793072	2.39E-112	0.72
29853	34214	34525	1.15E-05	0.8
29853	55196	55436	1.37E-05	0.86
29853	95928	96273	2.35E-10	0.98
29853	111198	111610	3.01E-12	0.96
29853	122939	123193	1.35E-03	1
29853	138058	138508	1.45E-05	0.83
29853	139951	140633	8.60E-07	0.9
29853	155018	155327	1.29E-06	0.92
29853	214391	214773	1.14E-05	0.96
29853	218281	218716	7.93E-10	0.97
29853	231457	231782	1.68E-05	0.86
29853	248854	249127	9.32E-05	0.86
29853	257552	257827	4.58E-07	0.72
29853	262911	263319	1.06E-05	0.84
29853	274632	274897	4.52E-05	0.63
29853	305880	306139	2.14E-04	0.95
29853	329552	329973	8.15E-13	0.92
29853	354626	355164	3.23E-09	0.88
29853	367309	367743	2.44E-07	0.78
29853	392033	392298	8.79E-11	0.87
29853	402265	403046	4.62E-07	0.83
29853	412780	413056	1.21E-06	0.81
29853	451770	452092	7.08E-14	0.89

29853	530553	531000	4.87E-20	0.88
29853	551312	551521	2.55E-07	0.86
29853	559331	559682	3.71E-09	0.86
29853	586274	586540	2.20E-11	0.87
29853	609792	610406	2.73E-38	0.79
29853	610568	610770	1.23E-05	0.85
29853	616529	616742	2.81E-11	0.87
29853	725316	725875	1.36E-19	0.9
29853	732473	732924	4.81E-07	0.97
29853	752247	752796	1.20E-10	0.63
29853	753697	754276	1.99E-51	0.96
29853	800930	801211	3.10E-09	0.9
29853	814298	814602	3.62E-47	0.97
29853	935781	935997	9.45E-12	0.88
29853	952801	953359	1.02E-18	0.91
29853	954104	954612	1.61E-22	0.94
29853	954983	955503	5.95E-15	0.83
29854	4614	5459	8.75E-46	0.86
29854	54923	55509	3.60E-61	0.97
29854	56345	56700	1.28E-19	0.9
29854	61581	61913	1.82E-42	0.89
29854	63099	64603	9.10E-69	0.94
29854	97765	98128	4.60E-22	0.69
29854	98335	98640	8.28E-12	0.75
29854	99660	99871	9.56E-16	0.73
29854	104657	105218	5.26E-27	0.71
29854	109859	110827	2.26E-55	0.84
29854	111890	112244	2.57E-27	0.96
29854	175830	176630	2.05E-79	0.95
29854	176839	177395	6.74E-29	0.91
29854	178182	179284	6.89E-114	0.95
29854	179543	180022	1.71E-38	0.95
29854	189240	189800	5.98E-15	0.76
29854	207340	207928	1.03E-49	0.9
29854	241275	241566	4.94E-06	1
29854	245307	245538	1.53E-03	0.96
29854	260353	260573	2.20E-06	0.76
29854	282359	282619	1.62E-08	0.74
29854	306600	307161	4.75E-18	0.81
29854	310804	311153	1.11E-42	0.89
29854	346329	347529	3.05E-15	0.98
29854	364595	365417	5.70E-49	0.88
29854	365716	366834	4.31E-83	0.95
29854	369109	369435	1.78E-41	0.93
29854	373382	374034	3.56E-33	0.95
29854	438708	438936	2.19E-18	0.92
29854	453435	453713	8.62E-14	0.89
29854	460938	461331	1.55E-27	0.95
29854	503007	505504	3.94E-85	0.65
29854	551671	552101	1.33E-14	0.78
29854	556095	556401	5.45E-37	0.95
29854	624006	624341	2.04E-74	0.94
29854	632027	632546	2.62E-25	0.86

29854	634523	635056	1.73E-82	0.92
29854	635918	636215	3.29E-16	0.95
29854	639380	640251	2.26E-83	0.96
29854	643486	644365	4.22E-77	0.96
29854	653237	653782	3.07E-74	0.95
29854	659536	659866	2.32E-13	0.66
29854	665249	665843	6.79E-51	0.89
29854	756793	757053	5.01E-06	0.94
29854	757853	758081	5.12E-09	0.96
29854	790183	790424	9.67E-09	0.83
29854	847142	847485	2.67E-34	0.96
29854	849380	850705	6.49E-51	0.78
29854	850911	851286	1.79E-22	0.72
29854	880419	880948	3.74E-20	0.8
29854	922616	923098	3.87E-13	0.7
29854	927835	928486	1.98E-25	0.67
29854	947270	947629	1.98E-09	0.97
29854	997399	997631	3.30E-18	0.92
29854	999376	1000306	6.74E-30	0.75
29854	1000834	1001354	1.48E-49	0.94
29854	1086824	1087144	2.00E-08	0.85
29854	1099830	1100604	2.55E-63	0.94
29854	1109141	1109530	4.86E-34	0.91
29854	1109932	1110180	2.66E-34	0.96
29854	1117516	1118019	4.82E-17	0.82
29854	1150748	1151660	2.63E-38	0.84
29854	1153475	1154665	5.77E-30	0.75
29854	1155257	1155718	3.71E-15	0.81
29854	1228155	1228472	1.80E-05	0.97
29854	1268897	1269241	1.53E-18	0.86
29854	1298055	1298409	1.96E-08	0.82
29854	1382648	1383868	1.29E-70	0.89
29855	7050	8199	1.45E-25	0.63
29855	9711	9999	5.53E-16	0.91
29855	10656	10945	6.82E-29	0.94
29855	11499	12052	1.91E-39	0.92
29857	12915	13363	2.91E-08	0.82
29858	18891	19182	7.23E-09	0.95
29858	42078	42517	4.08E-05	0.83
29858	94315	94625	1.75E-04	0.82
29858	98192	98435	3.10E-14	0.81
29858	113377	113727	9.63E-06	0.87
29858	117396	117963	1.87E-16	0.98
29858	121639	121840	6.87E-19	0.81
29859	13474	13847	3.88E-25	0.68
29859	14319	14762	1.88E-26	0.75
29859	15057	15308	2.53E-25	0.84
29859	15677	16186	2.66E-58	0.69
29859	24220	24709	5.79E-24	0.86
29860	6255	6781	7.56E-04	0.95
29860	10960	11441	9.77E-10	0.98
29860	15995	16396	4.62E-15	0.9
29861	4807	5071	1.94E-15	0.86

29861	29661	29971	6.98E-12	0.89
29861	32957	33166	1.08E-07	0.86
29861	38601	38865	3.08E-06	0.81
29861	60223	60502	3.16E-09	0.94
29861	116915	117380	4.52E-08	0.94
29861	143490	143898	1.21E-14	0.88
29861	162867	163118	2.44E-06	0.97
29862	35085	35450	9.79E-18	0.84
29862	92784	93302	1.06E-05	0.92
29862	152774	153277	1.08E-07	0.87
29862	181623	181850	2.43E-34	0.96
29862	226667	227089	3.93E-10	0.81
29862	303141	303878	1.44E-09	0.98
29862	352376	352639	6.39E-06	0.88
29862	495678	496005	2.40E-20	0.85
29862	596133	596450	5.26E-46	0.97
29862	596722	597127	6.25E-36	0.98
29862	597332	598347	2.88E-49	0.96
29862	599060	599700	2.68E-25	0.76
29862	600017	600893	1.77E-23	0.74
29862	638997	639266	3.29E-09	0.93
29863	107739	108172	3.68E-25	0.62
29863	131813	132190	7.27E-18	0.89
29863	198267	198595	1.42E-15	0.66
29863	312965	313251	9.65E-26	0.85
29863	432492	432787	2.81E-16	0.83
29864	2	290	4.36E-19	0.83
29864	46126	46510	3.04E-38	0.95
29864	48946	49281	2.66E-22	0.82
29864	62272	63341	8.88E-31	0.78
29864	64019	64340	1.33E-16	0.7
29864	67563	68066	6.14E-34	0.89
29864	73312	73855	8.56E-21	0.73
29864	79713	80024	5.02E-14	0.97
29864	114254	114536	3.56E-09	0.85
29864	116926	117418	1.87E-09	0.79
29864	120862	121360	5.12E-09	0.67
29864	212956	213775	2.24E-41	0.87
29864	233118	233348	1.75E-62	0.9
29864	241194	241691	5.16E-19	0.69
29864	267284	270005	5.99E-226	0.92
29864	270231	270589	5.90E-09	0.75
29864	275053	275479	2.75E-20	0.83
29864	300447	301708	7.07E-58	0.87
29864	302307	303245	4.75E-36	0.86
29864	305932	306267	2.31E-31	0.9
29864	306558	308726	1.61E-66	0.84
29864	318522	318901	9.48E-20	0.87
29864	346844	347061	3.45E-09	0.97
29864	396801	398259	1.24E-50	0.89
29864	400994	401362	9.49E-22	0.91
29864	415974	416956	2.03E-22	0.83
29864	486755	488910	3.09E-53	0.73

29864	493219	493544	7.04E-18	0.76
29864	524508	524847	3.09E-27	0.85
29864	553354	553597	7.54E-35	0.87
29864	554278	555321	8.59E-100	0.93
29864	570141	571027	6.46E-29	0.81
29864	571245	571525	1.69E-12	0.9
29864	579765	580171	1.01E-11	0.74
29864	582324	582734	1.11E-41	0.64
29864	613192	613489	4.27E-34	0.71
29864	613836	614505	2.57E-24	0.84
29864	615872	616185	4.05E-22	0.89
29864	670586	671144	1.75E-22	0.86
29864	727474	728514	1.13E-27	0.67
29864	729366	730111	1.16E-18	0.8
29864	742985	743458	3.34E-14	0.86
29864	781439	782039	2.71E-53	0.9
29864	782240	782461	6.73E-06	0.73
29864	784378	784791	1.56E-08	0.63
29864	812500	813399	2.40E-48	0.94
29864	815665	816601	9.45E-54	0.97
29864	816870	817230	4.93E-32	0.96
29864	821561	821837	1.88E-12	0.95
29864	824987	825267	2.31E-15	0.88
29864	830486	830963	6.24E-27	0.84
29864	850061	850431	1.69E-21	0.91
29864	853046	853371	4.70E-19	0.85
29864	854248	854791	2.42E-34	0.91
29864	862579	862983	4.61E-06	0.8
29864	863312	863898	6.68E-28	0.75
29864	905300	905610	2.63E-17	0.7
29864	964744	965262	3.17E-21	0.74
29864	965627	966627	9.22E-50	0.89
29864	981356	981960	4.48E-62	0.84
29864	985383	985733	2.64E-21	0.82
29864	993104	994267	2.26E-42	0.73
29864	1031853	1032299	2.75E-10	0.76
29864	1049976	1050359	5.29E-44	0.78
29864	1052076	1052847	3.86E-37	0.83
29864	1056562	1056895	1.48E-35	0.98
29864	1124255	1124755	2.69E-29	0.9
29864	1128252	1128876	4.56E-14	0.97
29865	507	786	1.75E-04	0.91
29865	10594	10913	3.87E-09	0.86
29865	42281	42520	1.07E-04	0.84
29865	87376	87639	2.81E-07	0.61
29865	87547	87806	1.16E-04	0.7
29865	103907	104108	3.33E-14	0.93
29865	124624	125290	1.90E-04	0.7
29865	148640	148903	1.37E-11	0.84
29865	152829	153095	1.96E-27	0.9
29865	251502	252430	2.17E-43	0.92
29865	256725	258053	5.09E-82	0.97
29865	333377	333582	5.44E-07	0.92

29865	381545	381813	7.56E-08	0.93
29865	389110	390011	2.62E-17	0.81
29865	415612	415937	1.86E-08	0.82
29865	424866	425113	6.36E-03	0.81
29865	425129	425619	3.57E-08	0.7
29865	430055	430366	2.70E-04	0.8
29865	451953	452456	4.77E-16	0.71
29865	470366	470593	4.26E-10	0.98
29865	480402	480631	1.66E-07	0.91
29865	536631	537040	5.20E-05	0.8
29865	578284	578928	4.82E-30	0.95
29865	585545	585826	2.31E-10	0.98
29865	599321	600283	1.17E-33	0.95
29865	610366	610983	6.93E-22	0.93
29865	713785	714229	1.47E-04	1
29865	729605	730036	2.97E-09	0.92
29865	740924	741203	5.42E-15	0.91
29865	748673	748974	8.08E-05	0.76
29865	777641	778079	9.60E-11	0.98
29865	795820	796797	1.08E-49	0.89
29865	808840	809215	4.39E-11	0.79
29865	822028	822228	6.79E-07	0.88
29865	827635	827958	5.83E-08	1
29865	832218	832535	9.58E-05	0.81
29865	832870	833537	6.82E-21	0.86
29865	834723	835235	3.68E-09	0.91
29866	9183	9427	5.80E-12	0.89
29866	12741	13274	2.24E-38	0.95
29866	14328	14982	9.10E-72	0.88
29866	79617	79834	2.54E-12	0.86
29866	173614	174051	2.54E-42	0.89
29866	191059	191357	6.40E-15	0.94
29866	218618	219379	4.84E-18	0.8
29866	222269	222801	4.50E-25	0.8
29866	252937	253518	2.61E-29	0.81
29866	253829	254310	1.12E-47	0.82
29866	322537	322957	2.35E-18	0.9
29866	326854	327234	5.77E-12	0.78
29866	367100	367542	1.64E-14	0.93
29866	374621	374838	1.40E-10	0.96
29866	405791	406240	1.86E-133	0.97
29866	408264	408679	6.96E-23	0.95
29867	62090	62349	1.35E-03	1
29867	84910	85599	3.13E-14	0.81
29867	112367	112738	1.38E-13	0.92
29867	117486	117774	6.90E-13	0.86
29867	120675	120895	1.91E-23	0.82
29867	157436	157977	8.20E-21	0.91
29867	159421	159823	1.97E-09	0.83
29867	203460	204338	1.34E-30	0.66
29867	237686	238119	3.38E-05	0.83
29867	274840	275191	6.01E-12	0.79
29867	304611	304916	1.56E-06	0.81

29867	398292	400344	6.16E-41	0.81
29867	402571	403168	1.17E-23	0.82
29867	404887	405866	1.22E-56	0.88
29867	406188	407484	1.24E-96	0.88
29867	407694	409619	5.77E-53	0.67
29867	496932	497178	7.69E-25	0.95
29867	519740	520119	1.13E-44	0.9
29867	522537	523972	6.45E-53	0.67
29867	524528	524761	1.16E-09	0.83
29867	530629	531175	9.10E-14	0.77
29867	531845	532409	1.40E-17	0.76
29867	532937	533763	1.61E-72	0.92
29867	539361	539788	1.55E-17	0.94
29867	540465	540907	6.65E-27	0.87
29867	544943	545473	9.27E-20	0.9
29867	549973	550730	6.36E-46	0.97
29867	557668	558237	6.36E-06	0.93
29867	569061	569661	2.52E-20	0.92
29867	571977	572558	7.20E-08	0.67
29867	574036	574582	1.45E-97	0.92
29867	581277	583683	3.08E-105	0.89
29867	590137	590734	3.92E-10	0.86
29867	590545	591080	4.97E-12	0.8
29867	597337	598179	3.76E-36	0.9
29867	601148	601541	9.01E-06	0.85
29868	28580	28850	1.75E-15	0.89
29868	54569	55027	5.39E-25	0.96
29868	55536	57126	1.93E-64	0.62
29868	59072	59671	6.95E-20	0.73
29868	61904	63134	5.28E-36	0.74
29868	80116	80976	1.94E-33	0.75
29868	82411	82777	5.39E-11	0.75
29868	99436	99935	1.03E-20	0.65
29868	100142	100696	2.25E-45	0.94
29868	101119	102244	4.42E-48	0.78
29868	104345	105024	1.20E-34	0.88
29868	106813	107562	5.22E-22	0.67
29868	122854	123441	2.96E-20	0.81
29868	146445	146899	3.47E-10	0.77
29868	147136	147413	1.39E-23	0.89
29868	164117	164816	6.70E-28	0.8
29869	34334	34631	6.03E-22	0.93
29869	68054	68347	1.27E-15	0.9
29869	68811	69377	8.93E-11	0.85
29869	74027	74886	4.20E-35	0.67
29869	87567	88120	5.71E-28	0.87
29869	91973	93298	5.94E-80	0.84
29869	120734	121011	1.07E-14	0.74
29869	134824	135302	6.96E-35	0.88
29869	185692	186298	1.32E-15	0.69
29869	209382	209803	1.17E-25	0.95
29869	210219	210842	8.63E-32	0.97
29869	245693	246445	7.70E-47	0.96

29869	247653	248451	4.85E-49	0.93
29869	248697	250943	1.47E-91	0.88
29869	255672	256060	2.93E-33	0.87
29869	258365	258718	6.91E-36	0.94
29869	277648	278135	3.91E-46	0.83
29869	278720	279212	2.00E-20	0.87
29869	291617	292086	3.72E-59	0.96
29869	301194	301650	1.04E-18	0.75
29869	310366	310734	7.14E-37	0.85
29869	332607	333354	2.51E-21	0.79
29869	334809	335182	5.94E-62	0.94
29869	366880	367354	2.86E-43	0.68
29869	368149	368692	1.09E-42	0.82
29869	369439	369913	9.56E-19	0.71
29869	371319	371787	1.97E-16	0.86
29869	372030	373019	2.67E-49	0.87
29869	374185	374413	2.77E-18	0.95
29869	383831	384531	1.80E-28	0.62
29869	393418	394548	1.52E-38	0.84
29869	404710	405038	2.08E-26	0.95
29869	419258	420578	6.29E-49	0.82
29869	420910	422875	2.33E-62	0.73
29869	441780	442090	8.38E-32	0.94
29869	465037	465328	1.20E-48	0.96
29869	469180	469610	5.64E-35	0.84
29869	471993	472306	2.35E-08	0.75
29869	485162	485377	8.41E-14	0.97
29869	496023	496504	1.18E-19	0.86
29869	501297	501581	1.33E-23	0.74
29869	509278	509634	6.38E-14	0.87
29869	513411	513739	5.70E-10	0.91
29869	548542	548850	1.81E-05	0.76
29869	568271	568645	1.48E-30	0.93
29869	630274	630694	5.63E-115	0.92
29869	671164	673067	1.99E-139	0.8
29869	673739	674431	6.84E-73	0.94
29869	675092	675883	6.60E-80	0.9
29869	676223	676778	3.37E-39	0.71
29869	702286	702943	8.07E-49	0.89
29869	703239	703694	3.89E-42	0.95
29869	703945	704344	4.48E-27	0.85
29872	21762	22737	1.64E-42	0.71
29872	39495	40533	1.34E-42	0.76
29872	54416	55607	1.52E-43	0.81
29872	54883	55892	7.11E-40	0.8
29872	56553	57790	4.50E-62	0.84
29872	62113	62424	5.40E-12	0.77
29872	71070	71788	1.41E-21	0.6
29872	105292	105626	1.01E-38	0.97
29872	110007	110289	6.31E-21	0.91
29872	115202	115811	1.08E-14	0.75
29872	127923	128373	2.49E-33	0.92
29872	134772	135319	1.86E-30	0.75

29872	135536	136067	5.53E-23	0.79
29872	136328	136642	8.74E-23	0.89
29872	139166	139450	8.77E-19	0.8
29872	139657	140173	1.85E-32	0.93
29872	143578	144007	5.84E-26	0.89
29872	175747	176945	5.99E-51	0.86
29872	179807	180027	1.40E-17	0.73
29872	180716	181039	2.16E-32	0.91
29872	205330	206415	1.61E-65	0.78
29872	210412	212597	1.58E-91	0.85
29872	215851	217220	1.26E-51	0.71
29872	217448	217734	1.38E-19	0.8
29872	218001	218469	5.14E-39	0.88
29872	225687	226173	2.98E-57	0.95
29873	2388	2646	2.65E-31	0.87
29873	23858	24136	1.36E-49	0.82
29873	37726	38224	1.06E-60	0.95
29873	38461	38978	2.29E-140	0.95
29873	50425	50677	1.94E-44	0.93
29873	53118	53529	3.82E-05	1
29873	83550	84224	4.21E-68	0.95
29873	141548	141756	6.23E-14	0.94
29873	149662	150847	4.06E-25	0.75
29873	169681	169961	1.03E-06	0.83
29873	192489	192741	1.91E-13	0.8
29876	16789	17162	2.23E-43	0.9
29876	17389	17966	1.10E-34	0.9
29876	56191	56877	5.25E-34	0.77
29876	111123	112222	1.05E-43	0.87
29876	112447	112680	1.13E-37	0.94
29876	144282	145572	3.16E-49	0.83
29877	16398	16675	1.12E-09	0.81
29877	35042	35454	1.54E-12	0.83
29877	43645	44086	1.80E-53	0.9
29877	51562	51895	7.37E-28	0.95
29877	53618	54168	6.32E-21	0.89
29877	59096	59654	5.01E-37	0.87
29877	59864	60732	3.12E-40	0.74
29877	65390	65976	2.11E-48	0.95
29877	101595	101850	1.52E-12	0.7
29877	107583	108048	9.82E-36	0.82
29877	133389	134019	7.75E-20	0.74
29877	142664	144200	3.06E-130	0.91
29877	146613	147950	5.09E-63	0.81
29877	166365	166683	1.01E-11	0.81
29877	166920	167525	1.16E-28	0.88
29877	168684	170034	4.74E-49	0.72
29877	176851	177176	5.11E-10	0.87
29877	178379	179046	1.98E-28	0.81
29877	178424	179383	2.00E-33	0.81
29877	181275	182674	2.71E-46	0.77
29877	197002	197353	1.72E-21	0.8
29877	200148	200365	2.40E-17	0.64

29877	204960	205473	1.34E-63	0.95
29877	206323	207418	2.07E-52	0.68
29877	237992	238241	2.80E-08	0.82
29878	36833	37367	3.68E-22	0.86
29878	49858	51411	3.52E-58	0.89
29878	71844	72401	2.78E-48	0.81
29878	89316	89610	8.21E-28	0.79
29878	106034	106513	3.61E-31	0.9
29878	106794	107558	3.56E-119	0.93
29878	107767	108914	4.91E-85	0.94
29878	118372	118892	3.88E-26	0.6
29878	142404	142797	2.83E-39	0.9
29878	160126	160384	3.93E-31	0.79
29878	161264	161914	8.64E-47	0.91
29880	108980	110000	2.01E-43	0.93
29880	111115	111520	4.77E-23	0.92
29880	120233	120578	6.07E-18	0.95
29880	123182	124623	2.50E-84	0.88
29880	126381	126842	1.78E-24	0.97
29880	240982	241381	3.11E-08	0.84
29881	45660	45963	6.55E-15	0.9
29881	87067	87496	8.33E-23	0.95
29881	143063	143386	9.43E-10	0.81
29881	151268	151575	4.80E-17	0.77
29881	153647	155040	5.34E-54	0.79
29881	167433	167777	2.75E-12	0.98
29881	247867	248317	5.79E-13	0.92
29881	248518	249014	3.33E-33	0.98
29881	286140	286343	2.31E-07	0.82
29881	290897	291110	5.13E-10	0.93
29881	297527	299398	1.83E-58	0.85
29881	299718	300374	4.70E-41	0.86
29881	308796	309170	9.01E-07	0.93
29881	319446	319914	1.34E-46	0.96
29881	327742	328023	3.05E-32	0.8
29881	328355	329103	6.57E-53	0.83
29881	371083	371510	2.38E-07	0.67
29881	407856	408521	1.18E-12	0.95
29881	414172	414429	3.71E-13	0.96
29883	32030	32240	9.78E-23	0.88
29883	37912	38240	1.32E-07	0.66
29883	40810	41249	1.03E-28	0.78
29883	41521	43028	8.48E-60	0.79
29883	43630	45026	8.52E-70	0.88
29883	91400	91696	2.38E-12	0.78
29883	107609	108194	4.46E-21	0.9
29883	112329	112931	1.09E-19	0.79
29883	120610	121083	4.23E-20	0.78
29883	159435	160231	3.82E-26	0.77
29883	177579	178225	4.52E-15	0.83
29883	182188	182625	5.33E-23	0.79
29883	206292	207244	1.17E-55	0.9
29883	207592	208244	4.91E-71	0.83

29883	210124	210866	6.53E-12	0.79
29883	211992	212394	6.01E-16	0.67
29883	243875	244341	1.67E-12	0.62
29883	297374	298390	1.98E-36	0.8
29883	306636	307380	3.02E-92	0.96
29883	309103	309479	2.60E-35	0.94
29883	309823	310314	1.06E-36	0.86
29883	310727	311042	4.55E-30	0.92
29883	311264	311555	8.40E-30	0.73
29883	313262	314198	6.26E-99	0.91
29883	331406	332204	2.48E-33	0.73
29883	333933	334320	3.31E-12	0.78
29883	335395	336137	5.00E-42	0.78
29883	360322	360549	1.10E-10	0.84
29883	376595	378068	1.24E-56	0.84
29883	401333	402032	4.35E-52	0.83
29883	403617	404867	1.45E-40	0.71
29883	413463	414911	6.96E-65	0.81
29883	415279	415776	6.98E-19	0.75
29883	431407	432580	6.54E-39	0.79
29883	451037	451295	2.45E-16	0.61
29883	456827	457600	1.15E-38	0.73
29883	461755	462008	2.82E-14	0.63
29883	465372	465786	3.60E-08	0.76
29883	471642	472015	2.44E-50	0.87
29883	472437	472899	1.87E-32	0.76
29883	498860	499425	1.04E-33	0.85
29883	503269	503588	1.59E-14	0.82
29883	504444	504744	8.79E-44	0.9
29883	505234	505445	2.80E-44	0.87
29883	530486	530872	2.77E-10	0.73
29883	573172	573516	3.00E-15	0.78
29883	581526	583318	1.30E-86	0.83
29883	617472	617911	2.49E-25	0.84
29883	621936	622463	2.11E-35	0.86
29883	646713	647193	6.88E-15	0.82
29883	655515	655756	1.49E-31	0.94
29883	663693	665289	3.72E-76	0.84
29883	665585	666038	3.04E-33	0.93
29883	669598	669900	8.38E-30	0.88
29883	670199	671268	4.25E-29	0.76
29883	717294	718165	2.88E-31	0.76
29884	49422	49788	9.71E-23	0.86
29884	52092	52795	6.36E-28	0.83
29884	56480	56745	2.34E-13	0.78
29885	6783	7002	3.83E-12	0.73
29885	11238	11943	3.51E-16	0.8
29885	16834	17434	4.02E-30	0.77
29885	26741	27441	1.37E-10	0.78
29885	31416	33037	2.79E-133	0.78
29885	54441	54779	4.39E-34	0.7
29885	55457	57301	3.04E-52	0.72
29885	59105	60408	5.03E-81	0.83

29887	18430	18775	4.61E-11	0.83
29887	18983	19900	3.16E-41	0.71
29887	25092	25449	1.15E-23	0.6
29888	1611	1943	8.29E-19	0.93
29888	2291	2704	2.13E-18	0.96
29888	46508	48248	2.89E-68	0.73
29888	49099	50104	5.87E-68	0.89
29888	63667	64504	3.34E-35	0.8
29888	74277	74754	3.44E-08	0.76
29888	75506	76021	6.21E-16	0.81
29888	88745	89019	2.19E-27	0.95
29888	103834	104965	8.90E-44	0.81
29888	106024	106816	9.20E-61	0.71
29888	114582	115047	6.48E-53	0.98
29888	123181	123529	7.66E-11	0.77
29888	143717	144376	4.94E-29	0.94
29888	144641	145003	1.07E-64	0.97
29888	149149	149382	4.68E-28	0.91
29888	213149	213742	7.41E-41	0.89
29889	13034	13364	5.22E-19	0.69
29889	18998	19582	5.21E-31	0.8
29889	31821	32202	1.12E-19	0.91
29889	37231	38426	2.07E-75	0.77
29889	38639	38981	5.36E-14	0.9
29889	41427	42496	9.88E-64	0.75
29889	57889	58335	3.93E-09	0.85
29889	59447	59673	1.10E-06	0.65
29889	64261	65394	5.87E-54	0.64
29889	74778	76251	1.16E-229	0.93
29889	76569	77630	1.92E-166	0.83
29889	96403	97366	2.79E-30	0.78
29889	96489	97435	1.05E-35	0.82
29889	100188	100601	3.56E-20	0.84
29889	107613	108453	5.35E-28	0.82
29889	108808	109334	1.71E-44	0.89
29889	140435	140941	4.47E-12	0.81
29889	142601	143059	7.03E-15	0.8
29889	145781	145997	6.75E-39	0.84
29889	154651	155441	4.42E-26	0.82
29889	158309	158956	5.66E-21	0.8
29889	170194	170567	1.70E-28	0.88
29889	172278	173007	2.76E-27	0.83
29889	187858	188259	2.32E-24	0.79
29889	189062	189717	6.20E-35	0.8
29889	190008	190648	1.25E-67	0.86
29889	196066	197881	8.55E-117	0.88
29889	198501	198815	2.09E-22	0.88
29889	218820	219615	3.31E-29	0.62
29889	227667	228841	3.68E-61	0.86
29889	240156	241703	1.10E-32	0.8
29889	240390	241797	1.93E-29	0.8
29889	243326	243568	8.90E-22	0.81
29889	258936	259189	1.13E-18	0.86

29889	260257	261099	8.60E-44	0.81
29889	262027	262519	1.07E-24	0.87
29889	262871	263196	2.68E-08	0.72
29889	281124	281773	4.04E-39	0.73
29889	297338	297956	1.64E-29	0.76
29889	303692	303911	5.59E-19	0.92
29889	304155	305660	3.93E-109	0.94
29889	358626	359065	1.55E-27	0.78
29889	359752	360123	7.24E-27	0.86
29889	365530	366146	1.27E-26	0.88
29889	420211	421764	1.01E-56	0.83
29889	422839	423368	2.62E-35	0.84
29889	426707	427079	8.73E-31	0.89
29889	427478	427714	3.82E-12	0.91
29889	428928	429305	9.98E-16	0.77
29889	476734	477185	1.41E-14	0.7
29889	489305	489707	5.37E-36	0.94
29889	492632	494152	3.41E-86	0.68
29889	500205	501230	7.74E-38	0.81
29889	506387	507057	1.33E-38	0.82
29889	507310	508688	2.05E-65	0.8
29889	515077	515533	1.19E-30	0.74
29889	523271	524082	5.24E-66	0.83
29889	545815	546046	1.17E-21	0.73
29889	578969	579486	1.68E-24	0.87
29889	580753	581609	6.13E-47	0.89
29889	582154	582811	1.42E-26	0.84
29889	583072	584147	3.58E-40	0.84
29889	585126	585370	1.98E-21	0.87
29889	589161	589570	2.09E-15	0.78
29889	609601	610851	5.19E-100	0.88
29889	619205	619460	7.17E-30	0.93
29889	619705	621119	4.99E-60	0.83
29889	632528	633044	1.10E-15	0.79
29889	638613	638848	1.35E-07	0.95
29889	641507	642036	1.10E-19	0.83
29889	646132	646835	2.04E-51	0.88
29889	649007	649219	8.19E-17	0.9
29889	650846	651987	5.57E-68	0.87
29889	652442	652730	1.60E-25	0.86
29889	654553	655282	2.81E-56	0.89
29889	661120	661846	6.01E-33	0.84
29889	679556	679979	3.88E-14	0.69
29889	681885	682596	1.06E-32	0.81
29889	698295	698700	7.23E-61	0.76
29889	707909	708774	6.72E-31	0.81
29889	709832	710190	3.63E-20	0.78
29889	710867	711772	8.63E-77	0.82
29889	712668	712989	6.34E-19	0.89
29889	723104	723700	1.92E-15	0.61
29889	723995	725489	1.95E-50	0.69
29889	725713	727218	5.12E-85	0.81
29889	733328	734369	7.70E-60	0.86

29889	736089	736815	1.29E-26	0.72
29889	738849	739847	3.59E-50	0.85
29889	756707	756949	1.50E-17	0.81
29889	758351	759040	7.40E-29	0.84
29889	775179	776561	5.07E-37	0.83
29889	803653	803874	9.71E-06	0.88
29889	825010	825332	2.66E-37	0.83
29889	835522	835971	7.96E-49	0.85
29889	842411	843860	5.93E-47	0.69
29889	850232	850485	3.41E-26	0.86
29889	862790	863947	3.40E-58	0.76
29889	899301	899684	9.96E-27	0.88
29889	904221	904713	3.90E-18	0.84
29889	914840	915237	3.08E-19	0.87
29889	932135	932436	4.51E-15	0.77
29889	933772	934430	5.36E-26	0.84
29889	961020	961348	7.29E-14	0.78
29889	962070	962639	1.47E-13	0.75
29889	981436	981729	3.59E-25	0.85
29889	1009652	1009884	7.18E-08	0.27
29890	61612	62024	2.55E-04	0.9
29890	113239	113517	9.71E-19	0.93
29890	119971	120357	9.31E-09	0.94
29890	126432	126711	4.36E-13	0.89
29890	146106	146343	8.28E-13	0.9
29890	286295	286967	3.20E-06	0.84
29890	297272	297629	2.41E-10	0.86
29891	13125	13607	3.10E-17	0.94
29891	43152	43381	2.11E-10	0.9
29891	57673	58095	3.17E-17	0.93
29895	33912	34128	2.36E-12	0.77
29896	18147	18581	3.48E-05	0.9
29896	29725	32716	1.03E-125	0.67
29896	38857	39193	2.79E-14	0.82
29896	43372	44885	1.32E-54	0.93
29896	45185	46823	6.48E-104	0.87
29896	50537	51068	1.91E-41	0.99
29896	51623	52345	4.86E-16	0.72
29896	69192	69523	9.83E-12	0.78
29896	70820	71514	8.21E-14	0.62
29897	13750	14285	6.96E-09	0.92
29897	16177	16488	7.09E-04	1
29897	17024	17581	1.17E-05	0.76
29897	22737	23103	6.33E-11	0.7
29897	58079	58672	8.81E-28	0.9
29897	70930	72734	1.70E-26	0.85
29897	76054	76531	5.07E-44	0.84
29897	78308	78926	1.00E-32	0.96
29897	80274	81604	4.03E-76	0.62
29897	82287	82551	7.33E-34	0.89
29897	93351	94091	1.56E-63	0.94
29897	98555	98970	3.41E-09	0.92
29897	105626	106770	1.39E-38	0.9

29897	110604	111425	1.51E-08	0.7
29897	120920	121568	6.59E-09	0.97
29897	122686	123037	2.10E-06	0.8
29897	125201	125445	1.36E-05	0.81
29897	132332	133001	7.15E-15	0.67
29897	136990	137222	6.63E-10	0.8
29897	137450	139447	7.61E-164	0.92
29897	143350	143875	2.54E-16	0.73
29897	146456	147073	6.70E-18	0.76
29897	147186	148296	1.22E-67	0.91
29897	152682	153074	3.63E-23	0.93
29897	157058	157304	1.26E-16	0.82
29897	157916	158404	2.75E-14	0.83
29897	158710	159508	2.87E-09	0.6
29897	161108	163499	5.24E-82	0.61
29897	171835	172228	5.35E-25	0.72
29897	173525	175729	2.99E-107	0.65
29897	179509	179903	1.80E-26	0.91
29897	182215	182634	8.58E-12	0.83
29897	188379	188644	2.31E-19	0.62
29897	214688	215224	3.61E-20	0.86
29897	232887	233650	2.37E-34	0.73
29897	290366	290845	6.28E-10	0.84
29898	9564	9829	6.57E-12	1
29899	94780	95068	3.93E-08	0.85
29899	109896	110174	2.54E-04	0.87
29899	110663	110955	5.16E-04	1
29899	111016	111296	3.21E-05	0.89
29899	116843	117395	1.55E-05	0.93
29899	126141	126552	9.35E-20	0.87
29899	140663	141643	2.80E-51	0.9
29899	148072	148472	4.45E-13	0.81
29899	148355	148611	1.07E-09	0.79
29899	192632	193165	4.03E-08	1
29899	206119	206565	1.08E-04	0.79
29899	223176	223381	3.64E-05	1
29899	260253	260496	2.19E-05	0.94
29899	272583	272848	5.15E-05	0.8
29899	273552	273822	1.53E-07	0.82
29899	283891	284262	1.55E-11	0.81
29899	294899	295330	1.09E-08	0.92
29900	8502	8847	7.68E-37	0.78
29900	9360	10066	1.83E-23	0.63
29900	48297	48759	2.38E-27	0.97
29900	62925	63366	4.56E-18	0.92
29900	78144	78458	2.70E-12	0.81
29900	108104	109931	1.40E-55	0.73
29900	111099	111451	7.03E-19	0.85
29900	113981	116193	3.81E-104	0.88
29900	116447	117199	5.67E-44	0.9
29900	117411	118054	9.94E-19	0.85
29900	119646	120107	2.57E-12	0.76
29900	119819	120161	7.54E-12	0.76

29900	160715	161144	6.97E-12	0.76
29900	164935	166060	3.11E-42	0.81
29900	181687	182092	2.76E-15	0.62
29900	207343	207879	3.76E-37	0.62
29900	208927	209318	8.22E-20	0.95
29900	224911	225209	3.09E-09	0.92
29900	242593	243413	3.09E-38	0.71
29900	252204	252943	1.69E-32	0.66
29900	276541	277508	4.20E-47	0.81
29900	308948	309278	1.69E-18	0.65
29900	390426	391128	2.58E-12	0.65
29900	416409	417117	7.79E-38	0.69
29900	422535	423084	1.47E-43	0.89
29900	431075	431290	1.34E-08	0.73
29900	443491	443791	1.00E-54	0.89
29900	444321	444638	3.54E-39	0.9
29900	444973	445860	1.28E-46	0.66
29900	457674	458117	5.18E-17	0.87
29900	506412	507036	9.26E-25	0.81
29900	544964	545773	3.10E-21	0.62
29900	549441	550099	2.04E-70	0.91
29901	42613	43347	4.38E-26	0.7
29901	57253	57745	4.46E-11	0.79
29901	80392	80654	1.31E-09	0.67
29901	105157	105696	8.13E-17	0.6
29901	119777	119988	5.23E-16	0.97
29901	144319	144850	1.54E-26	0.86
29901	145682	145986	1.02E-16	0.67
29901	149342	149897	1.15E-12	0.81
29901	175422	175802	2.17E-28	0.93
29901	194312	194581	2.92E-31	0.93
29901	210867	211162	5.59E-14	0.66
29901	220621	221034	1.06E-24	0.85
29901	223030	223591	5.18E-50	0.95
29901	224399	224854	8.00E-76	0.72
29902	7522	7919	2.16E-06	0.83
29902	21606	21849	1.01E-04	0.98
29902	53914	54163	5.85E-05	0.83
29902	60882	61229	2.47E-07	0.81
29902	69759	69993	2.50E-04	0.86
29902	72396	72622	5.81E-17	0.79
29902	83867	84108	4.41E-29	0.81
29902	129809	130286	7.55E-06	0.78
29902	136066	136522	7.04E-07	0.9
29902	143483	143912	4.49E-03	0.84
29902	151069	151334	6.27E-05	0.83
29902	153830	154334	1.86E-11	0.86
29902	154070	154411	1.11E-06	0.8
29902	155584	155809	1.75E-06	0.9
29902	223630	223853	6.71E-07	0.95
29902	241452	241987	5.02E-08	0.9
29902	252897	253739	5.00E-17	0.76
29902	280921	281160	2.70E-09	0.86

29902	323112	323331	1.69E-10	0.95
29902	330294	330774	2.05E-11	0.95
29902	339435	339700	2.68E-06	0.81
29902	390131	390422	6.63E-10	0.9
29902	409716	410133	7.03E-22	0.63
29902	410514	411035	1.26E-08	0.71
29902	414249	414848	2.39E-20	0.86
29902	420489	421334	1.54E-13	0.95
29903	12990	13194	3.03E-10	0.65
29903	36598	37077	3.54E-30	0.9
29903	40694	42288	1.17E-35	0.83
29903	48736	48958	8.63E-36	0.9
29903	49167	49675	6.22E-49	0.87
29903	52117	52520	7.27E-18	0.74
29903	53556	54005	8.21E-32	0.88
29903	54418	54700	6.70E-27	0.88
29903	55251	55610	9.25E-41	0.87
29903	88297	88791	7.38E-32	0.85
29903	109245	109989	2.87E-15	0.87
29903	115999	116846	3.19E-28	0.88
29903	135090	135292	4.75E-70	0.94
29903	141137	142079	1.09E-52	0.96
29903	143792	145795	1.83E-258	0.93
29903	150409	150815	7.82E-30	0.89
29903	173885	174174	3.59E-08	0.77
29903	190275	190553	1.30E-04	0.88
29903	243893	244257	1.43E-13	0.79
29903	245347	245674	1.59E-07	0.85
29903	247648	248175	1.58E-10	0.77
29903	248448	248976	1.92E-12	0.8
29904	20349	20670	5.28E-30	0.97
29904	23912	24565	1.61E-25	0.71
29904	27068	28774	4.61E-103	0.87
29904	34492	35028	1.59E-28	0.79
29904	40254	40521	2.11E-44	0.89
29904	40820	42930	6.82E-103	0.87
29904	48656	49585	1.16E-25	0.79
29904	90403	91901	4.18E-54	0.77
29904	92324	92581	6.05E-15	0.8
29904	93407	94173	3.00E-63	0.9
29904	101679	102070	1.61E-12	0.81
29904	104357	104910	1.88E-35	0.92
29904	105660	106808	1.52E-57	0.91
29904	132153	132502	2.09E-24	0.91
29904	135913	137424	4.08E-44	0.76
29904	140964	141477	7.73E-48	0.87
29904	147580	147940	4.21E-42	0.93
29904	148460	148997	5.13E-22	0.84
29904	153439	154559	2.07E-103	0.89
29904	156486	157269	8.76E-37	0.9
29904	160228	161966	1.72E-64	0.82
29904	169021	169493	1.98E-17	0.74
29904	189073	189621	2.18E-37	0.83

29904	191668	191986	3.29E-24	0.91
29904	227649	228534	1.84E-20	0.83
29904	229227	229702	1.61E-24	0.91
29904	239093	240113	2.44E-12	0.7
29904	241338	241681	3.01E-27	0.75
29904	246658	246967	9.02E-04	0.81
29904	248434	249848	2.70E-22	0.8
29904	277811	279043	2.23E-25	0.78
29904	284382	284722	7.30E-27	0.76
29904	285201	285571	3.12E-39	0.93
29904	285799	286290	1.47E-23	0.65
29904	322310	322823	4.19E-33	0.67
29904	325840	326179	5.80E-30	0.91
29904	327380	327787	5.26E-30	0.89
29904	328321	329403	3.02E-51	0.82
29904	329610	329946	2.69E-41	0.95
29904	392782	393001	3.59E-18	0.84
29904	393243	393533	1.96E-38	0.89
29904	394029	394370	4.96E-34	0.81
29904	415380	415656	1.51E-28	0.9
29904	425098	426250	8.93E-42	0.64
29904	440792	442298	9.51E-69	0.85
29904	456822	458026	4.65E-111	0.88
29904	458246	459171	4.69E-53	0.89
29904	478219	478599	1.08E-36	0.91
29904	478901	480179	6.23E-38	0.68
29904	495058	495469	2.59E-24	0.89
29904	499238	499779	5.43E-27	0.89
29904	503474	504324	8.38E-30	0.82
29904	519882	520464	1.47E-35	0.84
29904	520725	521394	6.45E-79	0.85
29904	528398	529131	5.76E-19	0.69
29904	529467	530809	3.84E-45	0.78
29904	532972	534071	1.84E-39	0.74
29904	545573	546313	3.64E-37	0.71
29904	550122	550757	9.36E-22	0.88
29904	551992	553454	9.45E-33	0.7
29904	572791	573124	5.67E-13	0.83
29904	573481	573836	3.06E-29	0.89
29904	574412	574905	6.85E-35	0.91
29904	575811	576054	4.81E-12	0.77
29904	578405	578800	2.18E-13	0.64
29904	583127	583522	3.97E-17	0.6
29904	598212	599055	1.09E-46	0.61
29904	603873	606398	3.18E-111	0.75
29904	606664	607031	8.78E-33	0.94
29904	616628	617866	8.17E-74	0.8
29904	622485	622799	1.81E-17	0.85
29904	629857	630695	7.66E-41	0.86
29904	645276	646992	8.50E-72	0.87
29904	647197	647836	1.12E-62	0.96
29904	716905	717286	1.45E-31	0.88
29904	717508	717936	1.96E-21	0.88

29904	729909	730216	1.38E-26	0.79
29904	730633	731077	9.93E-19	0.87
29904	809782	810978	1.14E-17	0.64
29904	811020	811721	1.36E-22	0.93
29904	816157	816655	1.36E-19	0.9
29904	841151	842790	8.54E-60	0.73
29904	843230	843690	6.93E-28	0.89
29904	843932	844184	2.01E-25	0.91
29904	864332	865091	9.56E-61	0.84
29904	865913	866178	1.46E-44	0.89
29904	866527	867344	1.96E-40	0.72
29904	888840	889165	7.76E-29	0.95
29904	890730	891611	2.36E-41	0.79
29904	910865	911265	7.38E-45	0.9
29904	912893	913228	2.55E-19	0.84
29904	917330	918840	1.04E-52	0.71
29904	923085	923485	5.77E-05	0.81
29904	925062	926717	1.94E-87	0.84
29904	932203	932447	2.49E-06	0.84
29904	933906	935267	3.22E-85	0.89
29904	935600	937203	1.41E-21	0.7
29904	944987	945422	6.44E-55	0.92
29904	951662	952313	3.73E-19	0.7
29904	986690	986988	5.51E-21	0.81
29904	1004600	1004845	5.32E-29	0.91
29904	1014482	1015617	4.49E-89	0.75
29904	1016044	1016496	2.16E-15	0.63
29904	1018622	1018903	6.65E-33	0.94
29904	1021089	1021639	4.75E-25	0.87
29904	1024017	1024611	1.24E-36	0.86
29904	1024950	1026251	3.62E-67	0.89
29904	1041686	1042168	6.95E-24	0.87
29904	1042500	1044099	6.65E-73	0.85
29904	1046240	1046580	3.50E-15	0.89
29904	1063413	1063638	2.06E-28	0.87
29904	1079153	1080377	2.50E-47	0.9
29904	1090116	1091395	1.18E-26	0.76
29904	1095946	1096202	4.61E-16	0.88
29904	1096937	1097239	2.87E-22	0.87
29904	1097449	1097997	1.56E-22	0.81
29905	2644	3013	2.69E-20	0.83
29905	13723	14235	4.52E-45	0.73
29905	17763	17991	1.39E-10	0.87
29905	19481	19805	1.43E-09	1
29905	19963	20380	9.04E-06	0.93
29905	23817	25046	4.15E-31	0.72
29905	67071	67961	1.58E-68	0.72
29905	83788	84152	4.75E-24	0.92
29905	86385	87573	2.57E-73	0.92
29905	89765	89989	8.27E-10	0.87
29905	150897	151524	2.22E-35	0.69
29905	185557	186076	6.40E-46	0.92
29905	243808	244031	5.26E-25	0.92

29905	252569	253289	1.54E-24	0.66
29905	278360	278852	1.46E-08	0.64
29905	287240	287483	1.44E-40	0.84
29905	295757	296277	1.86E-37	0.84
29906	3971	4495	8.75E-08	0.93
29906	16754	17280	2.53E-11	0.9
29906	22353	22790	2.23E-18	0.76
29906	24169	24922	1.73E-41	0.94
29906	32182	32554	8.08E-13	0.92
29907	32276	32929	2.61E-17	0.78
29907	53980	54519	5.23E-40	0.94
29907	61896	62391	1.33E-18	0.79
29907	67141	67487	1.20E-32	0.86
29907	70928	71295	9.97E-48	0.85
29907	71598	72092	1.85E-23	0.75
29907	72433	73038	2.55E-43	0.68
29907	76607	77144	2.54E-37	0.76
29907	78556	79351	7.68E-36	0.87
29907	81632	82164	3.25E-27	0.64
29907	86136	86348	1.08E-17	0.81
29907	89048	89579	1.32E-21	0.72
29907	96143	96497	2.94E-13	0.8
29907	127301	127650	1.94E-07	0.76
29907	141238	141936	1.62E-58	0.93
29907	147561	147885	1.15E-13	0.69
29907	148173	148756	9.24E-37	0.81
29907	159641	160495	2.19E-88	0.91
29907	164258	165192	8.62E-83	0.95
29907	166256	166832	9.19E-25	0.81
29907	168437	169074	6.59E-35	0.89
29907	191037	192259	8.87E-37	0.74
29907	195576	195883	2.83E-30	0.64
29907	199019	199954	8.61E-58	0.88
29907	205377	205825	5.79E-10	0.79
29907	262236	262662	1.16E-12	0.86
29907	329849	330241	1.38E-52	0.91
29907	342538	342808	2.55E-24	0.77
29907	349434	349665	1.07E-15	0.6
29907	354006	354284	7.14E-11	0.8
29908	59012	59722	4.35E-16	0.84
29908	84028	84452	8.37E-34	0.94
29908	92127	93059	7.19E-75	0.87
29908	93376	93738	3.53E-13	0.7
29908	108421	109058	9.94E-34	0.88
29908	118990	119330	7.78E-29	0.65
29908	119568	120454	3.62E-56	0.86
29908	120738	121143	1.33E-15	0.62
29908	145119	145328	1.15E-17	0.86
29908	151428	151854	1.05E-15	0.89
29908	155792	156333	2.93E-30	0.71
29908	173602	173832	3.70E-18	0.87
29908	215162	215816	3.78E-31	0.79
29908	232658	233239	1.59E-34	0.85

29908	252502	253583	1.66E-48	0.83
29908	258776	259223	5.69E-34	0.67
29908	318276	319491	3.03E-71	0.85
29908	324195	324417	1.67E-20	0.87
29908	362215	362924	1.82E-21	0.61
29908	371199	371567	7.96E-06	0.79
29908	384714	385026	5.85E-13	0.83
29908	386174	386489	2.11E-36	0.96
29908	405162	407396	4.79E-71	0.82
29908	409304	409726	1.68E-23	0.93
29908	410762	411296	5.38E-23	0.84
29908	411511	411986	2.03E-18	0.74
29908	420170	420544	3.19E-29	0.82
29908	425033	425530	8.58E-31	0.91
29908	440068	440382	1.61E-60	0.95
29908	441379	441863	1.31E-49	0.81
29908	442075	442561	2.57E-60	0.96
29908	482307	482614	5.79E-31	0.74
29908	484268	484691	2.40E-10	0.82
29908	495032	495393	1.90E-39	0.95
29908	517833	518112	1.56E-11	0.78
29908	534628	535635	1.02E-60	0.72
29908	601828	602512	1.11E-23	0.67
29908	603260	605151	6.20E-81	0.76
29908	615292	616011	1.44E-71	0.91
29908	616592	616962	3.86E-23	0.91
29908	617229	617691	1.58E-19	0.72
29908	632995	633652	4.89E-19	0.76
29908	634169	635664	2.04E-42	0.78
29908	640133	640385	1.69E-09	0.83
29908	640685	641251	4.45E-20	0.77
29908	650006	650450	7.82E-29	0.8
29908	650291	650545	5.90E-22	0.78
29908	654555	654940	8.07E-15	0.85
29908	671244	673235	2.60E-113	0.86
29908	700882	701522	9.94E-18	0.71
29908	746066	746768	5.97E-48	0.88
29908	755286	755786	3.55E-24	0.74
29908	760289	760495	4.36E-13	0.77
29908	764998	765275	2.23E-32	0.9
29908	765539	766163	6.96E-38	0.88
29908	785011	785700	5.54E-26	0.75
29908	791228	791732	7.49E-23	0.77
29908	794850	795216	1.07E-08	0.72
29908	806314	806879	1.40E-36	0.83
29908	807097	807492	1.88E-28	0.82
29908	834697	835656	1.06E-26	0.76
29908	835904	836460	1.31E-22	0.91
29908	852554	853291	2.09E-50	0.75
29908	873376	873861	7.17E-07	0.88
29908	877045	877282	3.62E-23	0.69
29908	898748	899098	1.87E-17	0.79
29908	899469	899927	3.70E-12	0.81

29908	901131	901795	6.62E-41	0.84
29908	902221	902906	1.41E-25	0.8
29908	904793	906106	9.75E-50	0.8
29908	941446	942366	1.48E-90	0.74
29908	942574	943088	2.56E-40	0.81
29908	956743	957622	1.85E-42	0.81
29908	968835	969290	3.69E-19	0.68
29908	1013112	1014241	5.74E-54	0.8
29908	1063532	1063805	2.25E-15	0.79
29908	1126244	1127013	4.28E-93	0.82
29908	1131748	1132281	1.49E-13	0.67
29908	1132513	1133118	7.78E-21	0.7
29908	1188779	1189241	3.51E-09	0.87
29908	1196776	1197140	3.91E-36	0.9
29908	1197382	1198392	5.76E-87	0.85
29908	1198656	1199302	6.77E-55	0.82
29908	1243619	1243915	1.55E-33	0.89
29908	1256433	1256780	1.20E-33	0.9
29908	1260676	1261223	8.60E-39	0.89
29908	1266761	1267185	2.12E-28	0.81
29908	1269002	1269614	5.35E-65	0.93
29908	1269815	1270175	4.08E-30	0.86
29908	1278459	1279273	5.19E-52	0.79
29908	1292885	1293841	8.30E-45	0.81
29908	1294203	1296122	8.61E-84	0.73
29908	1356359	1356933	1.41E-09	0.6
29908	1370619	1371665	3.00E-87	0.92
29908	1373825	1374047	2.33E-13	0.86
29908	1387965	1388208	7.45E-18	0.74
29908	1388409	1388682	4.16E-38	0.93
29908	1388913	1389211	9.77E-29	0.86
29908	1419010	1419535	1.06E-13	0.77
29908	1470119	1471848	9.85E-83	0.75
29908	1473941	1475109	1.03E-76	0.88
29908	1475372	1476645	1.72E-51	0.79
29908	1483418	1483702	8.05E-34	0.92
29908	1489264	1489561	8.65E-08	0.71
29908	1491148	1492940	2.59E-44	0.7
29908	1495652	1496238	4.83E-13	0.7
29908	1497110	1497354	1.11E-11	0.9
29908	1508815	1509695	2.08E-46	0.62
29908	1528277	1528827	1.03E-09	0.79
29908	1531895	1532370	2.69E-28	0.81
29908	1539153	1539521	9.64E-43	0.93
29908	1544714	1544989	7.08E-15	0.85
29908	1545949	1546333	3.25E-16	0.77
29908	1557401	1557894	1.90E-08	0.71
29908	1655542	1655945	1.67E-10	0.78
29908	1660691	1661260	7.28E-18	0.73
29908	1666346	1667029	1.55E-25	0.75
29908	1676424	1676832	1.71E-41	0.95
29908	1688742	1690522	4.04E-57	0.79
29908	1698141	1699156	3.94E-67	0.77

29908	1718471	1719023	9.68E-21	0.71
29908	1719295	1719759	2.13E-26	0.87
29908	1772080	1772582	8.57E-23	0.6
29908	1800603	1801077	1.33E-45	0.6
29908	1806504	1806715	1.65E-12	0.68
29908	1807237	1807925	4.50E-16	0.67
29908	1814730	1815887	1.55E-54	0.68
29908	1822433	1823171	1.49E-27	0.78
29908	1828255	1828635	1.86E-18	0.75
29908	1849939	1850219	5.81E-12	0.7
29908	1850558	1851647	8.37E-47	0.84
29908	1857705	1858375	1.95E-22	0.81
29908	1875972	1876446	1.53E-48	0.9
29908	1882247	1882546	1.17E-31	0.9
29908	1884217	1884436	6.31E-30	0.94
29908	1885084	1885485	1.22E-28	0.68
29908	1886383	1886682	7.94E-25	0.9
29908	1896184	1896397	8.24E-23	0.88
29908	1909039	1909349	1.34E-18	0.93
29908	1922338	1923669	2.13E-110	0.71
29908	1947794	1948114	5.11E-17	0.82
29908	1955551	1956093	9.71E-88	0.88
29908	1956521	1957637	1.01E-53	0.82
29908	1960788	1961053	7.57E-30	0.91
29908	1962753	1963353	4.90E-30	0.78
29908	1974975	1975616	1.40E-26	0.8
29908	1991530	1992648	9.23E-27	0.74
29908	2001424	2002126	3.61E-30	0.83
29908	2026042	2026258	2.66E-08	0.86
29908	2037987	2038249	6.41E-23	0.84
29908	2038779	2039255	4.31E-29	0.83
29909	30651	30911	4.84E-16	0.83
29909	51171	51504	7.69E-14	0.92
29909	57101	57761	9.38E-11	0.84
29909	59180	60236	1.43E-27	0.65
29909	60993	61545	6.82E-10	0.77
29909	72553	73140	3.48E-09	0.78
29909	75593	76035	1.53E-07	1
29909	174564	175134	5.16E-11	0.72
29909	205049	205408	5.24E-10	0.92
29909	215468	215948	1.27E-07	1
29909	216311	216667	5.23E-07	0.97
29909	228666	229153	7.40E-09	0.82
29909	228689	229225	2.44E-07	0.8
29909	229369	229628	2.64E-09	0.9
29909	239758	240023	2.07E-15	0.81
29909	301577	301824	3.49E-15	0.92
29909	334348	334548	2.50E-24	0.82
29909	344770	345262	4.57E-07	0.79
29909	367431	367910	8.74E-18	0.79
29909	374869	376336	1.30E-43	0.93
29909	377430	377906	2.09E-11	0.81
29909	389835	390364	3.71E-14	0.82

29910	7800	8535	1.29E-93	0.81
29910	17853	18324	2.34E-14	0.8
29910	23938	24207	8.23E-11	0.76
29910	35580	35988	1.71E-18	0.83
29910	36795	37165	2.17E-10	0.72
29910	111535	112014	8.51E-13	0.77
29910	128706	128994	4.65E-10	0.93
29910	132201	132470	2.13E-10	0.75
29910	192704	193494	7.72E-22	0.7
29910	213421	213799	6.32E-42	0.9
29910	317617	318401	5.88E-06	0.72
29910	384041	384457	2.49E-26	0.89
29910	388686	390567	6.12E-106	0.81
29910	416213	417287	1.59E-24	0.75
29910	454018	454777	6.17E-61	0.93
29910	489198	489470	1.81E-30	0.69
29910	498347	498988	3.61E-30	0.73
29910	504541	505915	3.40E-56	0.76
29912	6553	7544	6.41E-116	0.85
29912	9820	10260	4.00E-06	0.97
29912	34517	34953	2.57E-26	0.79
29912	34603	34995	1.89E-24	0.8
29912	105638	105920	1.39E-22	0.94
29912	119205	119477	1.73E-24	0.92
29912	146093	146298	4.75E-12	0.98
29912	149901	151698	2.54E-63	0.7
29912	152158	152528	1.82E-32	0.81
29912	163220	163918	7.15E-26	0.81
29912	164979	165296	4.80E-13	0.79
29912	168197	168485	2.08E-13	0.75
29912	171688	172748	1.22E-52	0.88
29912	172949	174275	1.45E-35	0.83
29912	176786	177202	7.61E-11	0.68
29912	196132	196912	4.49E-43	0.64
29912	210738	211094	1.29E-48	0.96
29912	211339	211988	1.41E-42	0.8
29912	221294	221720	1.66E-17	0.65
29912	221932	222231	6.77E-25	0.71
29912	223532	223942	6.03E-35	0.95
29912	230906	231285	4.05E-30	0.88
29912	236534	236918	5.46E-10	0.72
29912	238721	239461	7.66E-21	0.83
29912	335268	336080	2.75E-100	0.78
29912	356177	356475	1.01E-14	0.78
29912	359672	360091	4.37E-23	0.88
29912	363173	363667	2.30E-41	0.8
29912	364371	365237	3.78E-98	0.91
29912	376469	376672	1.54E-18	0.91
29912	390021	390544	4.53E-22	0.84
29912	391262	391645	1.19E-26	0.96
29912	408536	408893	1.96E-19	0.82
29912	409097	409691	7.09E-61	0.91
29912	434821	435837	6.14E-46	0.83

29912	436581	437550	2.30E-41	0.89
29912	437765	438004	5.24E-44	0.93
29912	441453	442237	1.67E-31	0.74
29912	442463	443080	1.86E-26	0.89
29912	443342	443638	5.72E-18	0.85
29912	445188	446083	1.89E-42	0.64
29912	467159	467608	7.50E-16	0.78
29912	467812	468607	1.46E-43	0.8
29912	468912	469239	4.01E-23	0.65
29912	506403	506992	7.93E-19	0.84
29912	514062	514539	1.17E-52	0.83
29912	516657	518235	2.02E-46	0.82
29912	535748	537606	7.13E-94	0.83
29912	567225	567568	3.65E-18	0.89
29912	567800	568688	5.49E-83	0.97
29912	569483	570395	1.17E-57	0.9
29912	586091	586690	1.64E-34	0.8
29912	592117	592428	5.59E-33	0.88
29912	617391	618079	7.88E-42	0.84
29912	630478	630950	4.59E-23	0.77
29912	632018	632353	5.78E-08	0.69
29912	645096	646651	2.77E-81	0.86
29912	682324	683140	7.88E-39	0.85
29912	699075	699302	1.85E-16	0.81
29912	702010	702913	5.67E-43	0.9
29912	714050	714308	1.79E-16	0.77
29912	723489	724693	4.10E-78	0.83
29912	746047	747205	8.42E-60	0.7
29912	774378	774591	9.60E-25	0.66
29912	800022	800397	1.43E-36	0.92
29912	800841	801595	2.32E-43	0.87
29912	802154	802544	6.47E-34	0.88
29912	802787	804712	1.70E-70	0.81
29912	816201	818926	3.70E-105	0.72
29912	829680	831073	9.70E-46	0.77
29912	848890	849314	6.06E-23	0.86
29912	854380	855329	3.65E-24	0.66
29912	885175	885680	7.52E-34	0.77
29912	917181	918502	8.14E-93	0.74
29912	932530	933241	4.62E-52	0.88
29912	948565	948772	8.63E-20	0.77
29912	976484	976822	2.71E-16	0.79
29912	977431	977894	7.78E-23	0.79
29912	978132	978934	1.54E-28	0.65
29912	984042	984476	2.11E-20	0.8
29912	988487	988705	2.30E-15	0.78
29912	991087	991651	3.71E-26	0.84
29912	1009510	1010174	1.60E-28	0.77
29912	1020739	1021385	1.40E-32	0.84
29912	1028969	1029324	9.76E-22	0.64
29912	1083236	1083453	1.61E-68	0.89
29912	1196557	1196852	3.30E-35	0.88
29912	1197401	1197637	9.69E-09	0.79

29912	1242059	1242609	3.42E-26	0.89
29912	1242876	1243653	1.50E-27	0.87
29912	1243906	1244361	2.06E-28	0.87
29912	1248641	1249043	2.79E-26	0.64
29912	1249865	1250087	1.02E-53	0.87
29912	1253603	1254570	1.08E-40	0.68
29912	1260435	1260752	3.26E-21	0.85
29912	1270317	1271109	1.29E-62	0.8
29912	1280646	1281398	3.96E-28	0.86
29912	1287079	1287330	1.62E-32	0.93
29912	1294657	1295241	2.07E-109	0.92
29912	1295786	1296477	1.10E-32	0.63
29912	1306858	1307674	2.86E-43	0.82
29912	1336979	1337571	1.24E-14	0.79
29912	1349109	1349716	4.54E-37	0.79
29912	1349980	1350603	1.56E-32	0.9
29912	1366679	1367738	5.99E-58	0.85
29912	1368424	1370183	2.23E-87	0.81
29912	1437433	1438077	1.13E-54	0.86
29912	1438309	1438819	4.05E-49	0.85
29912	1439065	1439474	1.00E-34	0.86
29912	1444969	1445342	6.26E-19	0.88
29912	1447901	1448217	5.48E-26	0.78
29912	1455760	1456068	9.90E-28	0.92
29912	1457657	1458004	9.44E-36	0.89
29912	1462112	1462767	5.16E-55	0.87
29912	1462999	1463387	5.26E-26	0.87
29912	1464521	1466164	1.77E-118	0.86
29912	1480846	1481643	7.03E-48	0.68
29912	1505590	1507164	8.26E-65	0.71
29912	1515244	1515460	1.28E-34	0.95
29912	1528109	1529287	3.59E-61	0.84
29912	1548702	1548997	1.78E-43	0.9
29912	1549389	1549743	8.67E-26	0.95
29912	1549984	1550452	2.61E-82	0.93
29912	1555498	1555917	2.94E-30	0.85
29912	1559504	1560785	5.62E-95	0.72
29912	1569527	1570627	6.12E-57	0.7
29912	1622284	1622541	5.18E-10	0.73
29912	1647304	1647874	6.83E-28	0.84
29912	1666299	1666535	1.33E-13	0.81
29912	1686492	1686987	1.12E-09	0.82
29912	1708785	1709265	5.93E-33	0.84
29912	1749714	1750083	2.91E-80	0.92
29912	1752401	1753576	5.67E-56	0.93
29912	1753878	1755770	4.07E-133	0.85
29912	1759571	1760164	1.36E-47	0.78
29912	1761802	1762993	7.19E-52	0.76
29912	1841372	1842267	1.00E-32	0.62
29912	1883076	1883899	1.87E-62	0.8
29912	1958722	1959164	1.57E-23	0.72
29912	1960145	1960698	1.45E-22	0.88
29912	1960911	1961606	3.30E-44	0.9

29912	1961823	1962797	2.79E-29	0.8
29912	1976265	1976845	5.88E-24	0.73
29912	1977197	1978243	2.28E-129	0.88
29913	17575	18488	7.97E-32	0.85
29913	19862	20143	4.73E-08	0.78
29913	24585	26468	9.56E-74	0.77
29913	41545	41756	3.21E-11	0.71
29913	63406	63649	4.98E-07	0.86
29914	46451	46953	1.72E-29	0.75
29914	47162	47489	2.08E-09	0.79
29914	116708	117214	4.29E-47	0.96
29914	118509	118915	1.47E-25	0.97
29914	133239	133682	3.74E-41	0.95
29914	145449	145976	4.10E-27	0.85
29914	146675	146978	6.10E-12	0.75
29914	148399	148632	1.27E-34	0.89
29915	15322	15688	3.80E-09	0.81
29915	59611	60365	3.27E-80	0.73
29915	60650	62473	2.23E-108	0.64
29915	63982	64369	1.94E-53	0.62
29915	70318	71330	2.43E-61	0.85
29915	77249	77689	5.13E-13	0.7
29915	97409	97887	3.78E-24	0.79
29915	107527	108018	2.88E-50	0.95
29915	116721	118050	8.93E-50	0.87
29915	118290	118671	8.35E-16	0.72
29915	119032	119306	4.13E-38	0.92
29915	119989	120537	3.62E-46	0.83
29915	128496	128889	1.49E-25	0.6
29915	145643	145917	7.47E-09	0.77
29915	151658	151928	5.09E-15	0.8
29915	153263	154133	8.20E-62	0.93
29915	154520	155712	3.26E-83	0.9
29915	185218	186145	1.44E-55	0.65
29915	220641	221567	1.63E-34	0.71
29915	247337	247663	4.92E-31	0.74
29916	52131	52804	4.72E-41	0.88
29916	53015	53755	1.16E-42	0.85
29916	68212	68829	8.17E-29	0.84
29916	95942	96596	8.18E-19	0.83
29916	110650	111125	9.49E-32	0.94
29916	111498	111753	4.80E-23	0.91
29916	112742	112959	9.96E-29	0.92
29916	119561	120309	1.62E-21	0.86
29916	161264	162051	7.84E-17	0.73
29916	163612	164114	3.67E-21	0.78
29916	185233	185481	3.73E-13	0.61
29916	215970	216335	7.13E-25	0.78
29916	216538	217058	1.01E-51	0.94
29916	217297	217794	1.96E-39	0.88
29917	3195	3442	1.63E-14	0.88
29917	32068	32421	1.10E-35	0.89
29917	32734	33191	5.48E-13	0.64

29917	33494	34063	7.39E-28	0.91
29917	34423	37185	2.19E-97	0.81
29917	59712	59934	1.09E-08	0.8
29917	102174	102838	7.16E-29	0.7
29917	103175	103602	1.93E-54	0.98
29917	108016	108957	2.23E-100	0.82
29917	123698	124219	5.39E-16	0.79
29917	165413	165709	4.23E-19	0.82
29917	211109	212090	6.72E-37	0.83
29917	212850	213851	4.68E-56	0.89
29917	224777	225296	2.35E-54	0.91
29917	265123	265831	1.43E-37	0.87
29917	266078	266584	4.34E-37	0.71
29917	286489	287654	3.67E-50	0.65
29917	287901	288188	6.94E-24	0.84
29917	290053	291428	2.25E-78	0.79
29917	300276	301264	1.41E-51	0.78
29917	301490	302272	2.37E-38	0.75
29917	303316	304061	5.83E-55	0.9
29917	304473	305408	6.60E-91	0.91
29917	306027	306797	2.10E-42	0.78
29917	321406	322140	1.63E-71	0.85
29917	327471	328244	6.48E-37	0.82
29917	328664	329787	6.08E-60	0.87
29917	356777	357404	7.38E-15	0.77
29917	370322	370585	7.55E-28	0.84
29917	370937	371902	1.18E-51	0.86
29917	389538	390627	1.30E-48	0.72
29917	394612	395361	1.46E-44	0.89
29917	414697	414995	4.34E-21	0.83
29917	426412	427454	9.34E-28	0.86
29917	434033	435034	7.55E-48	0.93
29917	439594	439931	1.32E-26	0.79
29917	445638	446317	9.04E-44	0.92
29917	446576	447375	4.24E-42	0.75
29917	487507	487972	2.35E-52	0.92
29917	505001	505405	4.80E-40	0.89
29917	514614	515138	9.53E-11	0.8
29917	518396	518687	5.83E-40	0.93
29917	518948	520856	6.11E-148	0.76
29917	533571	535248	1.42E-88	0.64
29917	536274	536740	9.17E-31	0.82
29917	538355	539343	1.08E-21	0.67
29917	561510	561918	5.66E-18	0.84
29917	562482	562721	2.04E-25	0.97
29917	597294	597893	4.52E-66	0.72
29917	599275	600074	1.13E-36	0.63
29917	613020	613475	4.73E-36	0.82
29917	613745	614377	4.75E-49	0.9
29917	627437	627722	8.33E-07	0.61
29917	636385	636797	9.98E-15	0.82
29917	636435	636979	5.34E-18	0.8
29917	639965	641141	2.49E-49	0.83

29917	644818	645737	2.01E-32	0.65
29917	652215	652485	5.36E-11	0.67
29917	666426	666927	2.87E-75	0.92
29917	667591	668244	3.99E-49	0.89
29917	668530	669267	6.51E-100	0.9
29917	679555	679896	1.61E-22	0.78
29917	685067	685517	9.67E-23	0.81
29917	685862	687309	1.41E-73	0.86
29917	692561	692776	3.58E-07	0.66
29920	12541	13065	9.51E-41	0.95
29920	23913	24256	6.03E-08	0.8
29920	31708	31937	2.13E-18	0.89
29920	37252	38412	1.79E-95	0.91
29920	43739	44115	1.83E-11	0.9
29922	16672	16929	1.72E-25	0.87
29922	43081	43444	9.72E-16	0.82
29922	43656	43880	3.36E-21	0.92
29922	59054	59353	1.47E-07	0.8
29922	88790	89123	2.90E-04	0.97
29922	103816	104260	2.30E-04	0.9
29922	183549	183872	4.25E-46	0.98
29923	17844	18380	5.03E-12	0.82
29923	18852	19503	4.28E-22	0.79
29923	33220	33546	1.62E-05	0.71
29923	36449	36655	1.27E-10	0.81
29923	47584	47844	2.15E-11	0.8
29923	51419	51687	3.61E-17	0.8
29923	62459	63437	1.68E-31	0.8
29923	64178	64986	3.81E-17	0.76
29923	65064	65642	3.17E-23	0.79
29923	71904	72256	3.84E-18	0.79
29923	97257	97645	9.56E-10	0.82
29923	118498	118828	2.87E-35	0.94
29923	119801	120498	6.35E-13	0.83
29923	145663	145959	1.35E-09	0.72
29923	156516	156998	1.22E-10	0.82
29923	162378	163073	8.96E-36	0.85
29923	164229	165682	1.27E-113	0.93
29923	184695	185063	1.51E-47	0.88
29923	185425	186033	2.27E-11	0.7
29923	213141	214505	6.72E-120	0.87
29923	216943	217291	6.42E-14	0.67
29923	224581	225596	1.05E-44	0.94
29923	247383	247832	6.97E-08	0.83
29923	259977	260705	8.65E-52	0.87
29923	277084	277489	7.52E-18	0.77
29923	288217	288719	4.82E-54	0.82
29923	304745	305003	3.73E-12	0.92
29923	305955	306412	4.50E-33	0.94
29923	306705	307355	1.98E-33	0.89
29923	338661	339307	2.58E-30	0.89
29923	340070	340823	1.43E-41	0.87
29923	342739	343404	1.45E-50	0.89

29923	348395	348626	2.19E-17	0.82
29923	390657	391127	7.26E-41	0.95
29923	391512	391846	5.37E-53	0.94
29923	401258	402271	5.08E-46	0.78
29923	402544	402994	1.38E-39	0.84
29923	407792	408013	2.83E-13	0.81
29923	408105	408441	9.06E-22	0.91
29923	408800	409047	1.54E-13	0.75
29923	412842	413142	1.07E-15	0.87
29923	447175	447443	2.31E-52	0.95
29923	448390	448937	9.10E-43	0.94
29923	449234	449731	3.80E-31	0.84
29923	450446	450865	8.95E-08	0.92
29923	461582	462212	1.84E-13	0.81
29924	7801	8726	5.69E-22	0.61
29924	49636	50640	1.28E-75	0.82
29924	52327	53090	2.92E-57	0.89
29924	53778	54263	1.19E-47	0.94
29924	54557	55730	7.91E-21	0.66
29924	61028	61394	6.63E-14	0.98
29924	62241	62594	2.96E-13	0.67
29927	9970	10284	5.63E-12	0.67
29927	42500	43038	2.73E-38	0.97
29927	81555	82420	2.59E-76	0.93
29927	82946	83354	3.64E-50	0.91
29927	83596	83950	3.82E-37	0.89
29927	85377	86001	4.41E-37	0.86
29927	86718	86946	2.11E-16	0.82
29927	87452	87727	7.63E-24	0.96
29927	87930	88179	1.71E-16	0.89
29927	88410	89742	2.23E-58	0.81
29927	118917	120366	7.61E-85	0.74
29927	130843	131382	2.28E-81	0.83
29927	131602	131977	2.35E-38	0.81
29927	132232	132558	2.41E-27	0.97
29927	132833	133530	2.40E-45	0.84
29927	134204	134582	4.87E-31	0.94
29927	135969	136535	1.91E-17	0.76
29927	143441	143718	2.68E-23	0.87
29927	144027	144445	9.52E-17	0.86
29927	177472	178645	6.79E-52	0.88
29927	182512	183088	1.72E-18	0.85
29927	198823	199103	7.39E-12	0.94
29927	263985	264288	1.50E-13	0.82
29927	304196	306590	1.26E-89	0.8
29927	306908	307421	4.21E-38	0.87
29927	318924	319880	1.66E-56	0.83
29927	320386	320599	7.36E-30	0.88
29929	10415	10934	9.65E-58	0.86
29929	12073	12710	2.50E-20	0.8
29929	13779	14375	8.62E-55	0.91
29929	14607	14807	1.60E-28	0.78
29929	36297	37893	1.28E-34	0.73

29929	39409	39850	5.30E-44	0.87
29929	42304	44235	5.08E-73	0.77
29929	50988	51491	5.94E-49	0.94
29929	52315	53031	1.18E-65	0.94
29929	66947	69023	2.87E-86	0.78
29929	71759	72016	7.06E-06	1
29929	79885	81475	1.78E-58	0.87
29929	81676	82255	5.41E-15	0.67
29929	90163	91281	2.76E-32	0.89
29929	100194	100549	3.10E-22	0.85
29929	109601	110110	8.71E-35	0.9
29929	114204	114550	1.12E-15	0.69
29929	114850	115189	7.31E-28	0.9
29929	127147	127447	1.17E-27	0.86
29929	136978	139295	6.81E-90	0.84
29929	143231	143485	9.21E-11	0.83
29929	181137	181378	7.59E-39	0.93
29929	200588	201308	1.73E-25	0.82
29929	203000	203702	2.10E-53	0.95
29929	204830	205091	4.30E-24	0.76
29929	214886	215319	1.18E-15	0.8
29929	219122	219516	8.27E-30	0.87
29929	221421	222469	1.15E-40	0.74
29929	248805	250066	7.62E-46	0.76
29929	254158	254533	1.03E-17	0.82
29929	280362	280948	3.25E-17	0.81
29929	284700	285110	2.10E-17	0.82
29929	308372	308831	5.30E-19	0.94
29929	323044	323395	2.00E-41	0.91
29929	325604	326129	1.85E-16	0.83
29929	350670	351166	7.66E-40	0.88
29929	376623	378065	6.01E-47	0.73
29929	381886	382476	5.52E-28	0.81
29929	383941	384675	1.11E-66	0.69
29929	395047	395594	9.10E-33	0.82
29929	396573	397329	4.34E-58	0.92
29929	403233	403472	2.04E-08	0.94
29929	466315	467150	3.06E-34	0.82
29929	467892	468347	4.06E-36	0.9
29929	468555	469482	2.20E-36	0.83
29929	483780	484372	5.28E-25	0.79
29929	524378	524801	1.17E-12	0.84
29929	527547	527788	2.08E-16	0.63
29929	532559	532840	7.22E-30	0.92
29929	534984	535624	7.08E-19	0.7
29929	605706	606491	4.32E-37	0.73
29929	617171	617780	1.37E-31	0.82
29929	618101	618761	3.54E-39	0.75
29929	620019	621190	9.30E-62	0.8
29929	630768	631379	3.19E-28	0.66
29929	635925	636689	6.82E-52	0.78
29929	651030	651493	2.84E-24	0.75
29929	651807	652566	2.97E-29	0.8

29929	671256	671789	3.33E-35	0.88
29929	689110	689630	3.63E-25	0.82
29929	697750	698420	3.58E-21	0.79
29929	737630	737956	6.56E-12	0.81
29929	750148	750408	3.68E-28	0.83
29929	774856	775943	4.64E-23	0.77
29929	799910	800287	7.37E-28	0.86
29929	802712	802932	5.17E-16	0.8
29929	811341	812400	4.86E-81	0.86
29929	814761	814988	7.82E-25	0.83
29929	858609	859325	1.67E-32	0.8
29929	859583	860946	8.04E-72	0.85
29929	884463	884944	1.97E-18	0.84
29929	885556	886348	8.01E-66	0.62
29929	894661	895176	3.68E-59	0.91
29929	903045	903323	8.23E-13	0.83
29929	943977	944302	9.34E-20	0.77
29929	944612	945150	3.80E-31	0.76
29929	950092	950870	4.01E-78	0.81
29929	951444	952101	5.92E-82	0.89
29929	952306	952677	3.55E-35	0.96
29929	952990	953475	8.23E-13	0.64
29929	1012373	1012907	8.68E-23	0.78
29929	1032836	1033798	1.46E-69	0.84
29929	1040865	1041591	4.84E-26	0.81
29929	1077694	1078130	1.23E-11	0.65
29929	1094519	1094839	4.82E-44	0.78
29929	1095676	1096427	1.99E-52	0.74
29929	1097392	1097707	3.17E-11	0.8
29929	1107708	1108767	1.57E-36	0.73
29929	1135278	1136594	2.60E-35	0.61
29929	1137438	1137745	1.86E-29	0.85
29929	1138004	1138872	4.27E-53	0.89
29929	1139662	1139944	2.21E-42	0.69
29929	1145744	1146494	1.12E-44	0.81
29929	1157982	1158367	1.24E-17	0.79
29929	1165251	1165664	1.03E-68	0.8
29929	1168100	1168475	3.62E-58	0.89
29929	1169581	1169927	9.25E-15	0.66
29929	1181343	1181695	9.72E-89	0.95
29929	1198930	1199273	1.65E-37	0.69
29929	1207234	1208122	8.69E-75	0.87
29929	1217061	1217812	2.83E-44	0.77
29929	1218397	1218987	1.34E-55	0.86
29929	1219284	1219517	8.08E-20	0.9
29929	1228228	1228902	1.26E-70	0.71
29929	1234899	1236047	2.27E-96	0.88
29929	1236482	1237684	1.51E-33	0.66
29929	1239385	1240256	7.72E-77	0.73
29929	1243285	1243563	2.69E-20	0.8
29929	1247317	1247661	6.06E-37	0.9
29929	1253817	1254504	2.43E-34	0.85
29929	1301557	1304003	2.20E-81	0.74

29929	1322054	1322698	6.97E-33	0.9
29929	1323576	1324067	6.58E-42	0.94
29929	1324268	1324727	1.38E-24	0.91
29929	1325148	1325406	9.88E-13	0.84
29929	1325865	1326425	1.50E-36	0.83
29929	1329091	1329367	2.48E-33	0.82
29929	1331478	1332092	1.17E-32	0.86
29929	1332818	1333770	1.73E-86	0.9
29929	1339829	1340252	5.87E-45	0.92
29929	1341793	1342106	3.22E-30	0.83
29929	1368929	1369748	1.44E-43	0.86
29929	1383813	1384139	4.19E-12	0.77
29929	1385478	1386030	2.14E-24	0.86
29929	1402888	1403112	1.57E-06	0.75
29929	1441292	1441993	4.84E-21	0.73
29929	1442296	1443749	2.52E-67	0.77
29929	1456590	1457215	1.01E-119	0.72
29929	1497672	1498118	4.95E-17	0.71
29929	1498506	1498944	3.01E-47	0.95
29929	1500575	1501431	1.24E-35	0.85
29929	1501654	1502802	1.73E-80	0.64
29929	1506457	1507443	3.60E-26	0.74
29929	1516550	1517052	9.07E-11	0.81
29929	1550743	1551084	1.05E-17	0.83
29929	1551997	1552741	5.12E-39	0.79
29929	1559086	1559386	2.04E-13	0.63
29929	1561802	1562886	4.53E-60	0.74
29929	1580768	1581439	1.01E-25	0.76
29929	1587334	1587978	6.32E-14	0.8
29929	1589044	1591315	1.25E-146	0.88
29929	1597453	1598249	9.26E-37	0.73
29929	1608181	1608554	1.25E-15	0.66
29929	1611091	1611771	6.92E-35	0.84
29929	1613642	1615285	9.26E-88	0.77
29929	1616906	1617562	1.92E-25	0.71
29929	1635587	1635899	8.94E-24	0.64
29929	1683428	1683703	2.52E-18	0.67
29929	1693939	1695578	9.45E-43	0.79
29929	1697295	1697710	7.05E-18	0.84
29929	1701328	1701681	1.05E-27	0.83
29929	1719517	1719952	9.13E-32	0.79
29930	17284	17711	3.16E-11	0.84
29930	17392	17839	3.16E-16	0.91
29930	108270	109085	6.23E-57	0.91
29930	123532	124416	8.77E-76	0.9
29930	175067	175578	3.54E-36	0.93
29930	176782	177046	6.09E-21	0.77
29930	181798	182313	7.46E-25	0.83
29930	200345	200649	9.99E-86	0.86
29930	237618	238867	2.75E-62	0.87
29930	258280	258736	1.51E-33	0.95
29930	266948	267599	9.56E-43	0.96
29930	282898	284120	3.49E-42	0.76

29930	286630	287308	7.45E-62	0.93
29930	289845	290211	5.88E-31	0.84
29930	305008	305400	6.16E-57	0.95
29930	319193	319696	6.55E-17	0.73
29930	321324	321880	1.80E-52	0.82
29930	358658	359124	5.71E-17	0.77
29930	365364	365673	6.03E-14	0.87
29930	365888	366555	5.10E-45	0.95
29930	366971	367517	1.35E-41	0.86
29930	386169	387480	2.11E-54	0.67
29930	395621	395835	1.15E-14	0.8
29930	430903	431382	5.14E-27	0.88
29930	434515	435388	1.23E-66	0.88
29930	435622	435982	1.80E-28	0.95
29930	436914	437443	2.54E-17	0.81
29930	437985	438526	3.08E-44	0.93
29930	438730	439451	3.78E-76	0.86
29930	447571	448405	3.89E-41	0.95
29931	10293	10556	5.54E-04	0.89
29931	38940	39156	4.08E-15	0.88
29931	68621	68875	1.03E-10	0.99
29931	106164	106412	1.35E-05	0.76
29931	120616	120848	2.81E-08	0.83
29931	121337	121594	5.31E-13	0.82
29931	128572	128779	6.27E-04	0.82
29931	151174	151866	1.84E-28	0.98
29931	155072	155297	3.76E-13	0.87
29931	183922	184259	3.06E-10	0.89
29931	189827	190073	1.18E-11	0.85
29931	194816	195296	5.54E-12	0.89
29931	210998	211269	2.46E-15	0.85
29931	213772	213999	5.07E-09	0.86
29931	297326	297846	5.73E-09	0.95
29931	306213	306564	1.96E-27	0.81
29931	319865	320703	3.26E-32	0.9
29931	411089	411361	6.79E-04	0.87
29931	473953	474166	6.21E-05	0.88
29931	487862	488120	2.22E-05	0.84
29931	497229	497559	1.05E-12	0.89
29931	533910	534262	4.26E-17	0.9
29931	542627	542863	4.58E-08	0.9
29931	546665	547143	9.09E-21	0.85
29931	549468	549682	1.05E-27	0.8
29931	563689	564251	2.60E-26	0.88
29932	16782	17162	2.41E-62	0.81
29932	44011	44250	7.94E-17	0.82
29932	44556	45398	4.11E-66	0.92
29932	100264	100574	6.00E-42	0.91
29932	114142	114475	1.88E-25	0.91
29932	121659	122063	3.81E-13	0.9
29932	123488	124008	1.06E-23	0.83
29932	130880	131207	1.72E-33	0.79
29932	137238	137612	3.12E-26	0.78

29932	141414	141929	5.60E-42	0.95
29932	144961	146999	1.14E-58	0.76
29932	147611	148701	9.07E-48	0.82
29932	148914	149151	3.00E-42	0.88
29932	156186	156676	3.27E-54	0.94
29932	175422	176027	8.40E-38	0.79
29932	181179	181520	9.52E-15	0.77
29932	182037	183420	4.74E-47	0.84
29932	185935	186242	2.30E-17	0.84
29932	187491	188047	7.06E-31	0.83
29932	188353	189231	7.22E-50	0.76
29932	189798	190480	1.09E-48	0.76
29932	190827	191061	5.52E-17	0.81
29932	191134	191809	5.29E-33	0.82
29932	199566	199786	2.09E-07	0.67
29932	216042	216604	4.07E-18	0.67
29932	225144	225429	6.20E-18	0.86
29932	226450	227040	3.41E-21	0.85
29932	236283	236791	1.69E-23	0.7
29932	237167	237998	3.57E-35	0.84
29932	238621	238960	1.62E-20	0.73
29932	241649	243148	3.79E-54	0.82
29932	248564	249340	4.71E-47	0.82
29932	249684	249935	1.42E-24	0.84
29932	250455	251085	2.15E-28	0.78
29932	251746	252064	9.56E-18	0.83
29932	281734	282690	1.63E-17	0.88
29932	315780	315992	8.89E-27	0.96
29933	11366	11743	3.62E-52	0.92
29933	15460	16092	4.68E-21	0.71
29933	39629	40003	6.75E-10	0.75
29933	56372	56931	4.04E-42	0.94
29933	57445	58030	8.33E-30	0.82
29933	58447	58958	7.40E-24	0.83
29933	70562	71334	8.58E-58	0.86
29933	74756	75195	3.97E-16	0.77
29933	104634	104907	5.06E-16	0.88
29933	108411	108814	9.10E-21	0.6
29933	112094	112568	1.99E-49	0.9
29933	115276	115600	9.71E-26	0.82
29933	120835	121539	1.57E-50	0.85
29933	134785	135078	4.16E-44	0.67
29933	135607	136276	1.08E-46	0.91
29933	148294	148812	1.52E-32	0.9
29933	166325	166790	3.51E-30	0.83
29933	185497	186596	2.01E-37	0.79
29933	187104	187498	1.14E-16	0.78
29933	189987	190426	1.11E-25	0.79
29933	212197	213194	1.39E-33	0.83
29933	231627	231916	2.32E-31	0.85
29933	233423	234603	2.40E-78	0.68
29933	235368	236163	3.03E-34	0.82
29933	243566	243983	1.08E-13	0.79

29933	253997	254238	1.22E-14	0.83
29933	351117	351873	1.17E-27	0.74
29933	352488	352963	3.52E-23	0.77
29933	414840	415115	1.44E-27	0.86
29934	52854	53158	4.37E-05	0.93
29934	70419	70646	3.86E-14	0.88
29934	128330	128674	9.70E-04	0.75
29935	9371	9778	4.58E-12	0.82
29935	11112	11519	1.10E-05	0.89
29935	34696	35412	1.96E-07	0.9
29935	36875	37470	9.94E-04	0.82
29936	19678	20098	1.07E-06	0.84
29936	20358	20994	1.31E-17	0.75
29936	28127	28423	3.35E-27	0.84
29936	37073	37572	1.85E-16	0.79
29937	11280	11590	4.50E-21	0.86
29937	47402	47681	2.12E-13	0.83
29937	50815	51394	2.27E-26	0.64
29937	54373	54591	2.51E-28	0.84
29937	87444	87694	6.93E-10	0.81
29937	96211	96476	1.59E-12	0.77
29938	14829	15243	5.89E-13	0.83
29938	18830	19037	3.99E-10	0.81
29938	29487	30634	2.63E-30	0.7
29938	31233	31668	1.47E-69	0.93
29938	43370	44018	3.06E-24	0.66
29938	64886	65672	3.10E-34	0.9
29938	65609	67207	1.78E-51	0.7
29938	91613	92890	1.88E-85	0.86
29938	95801	96413	1.26E-19	0.82
29938	124939	125336	5.59E-71	0.9
29938	125644	125956	7.40E-63	0.93
29938	126625	128062	9.58E-75	0.91
29938	144411	144915	3.26E-21	0.6
29938	160704	160986	3.69E-21	0.75
29938	164157	165016	2.25E-38	0.7
29938	184200	184959	3.23E-47	0.86
29938	207106	208176	7.85E-110	0.93
29938	217710	218420	5.33E-27	0.8
29938	223684	224083	2.12E-15	0.79
29938	224951	225421	6.76E-38	0.86
29938	228424	228931	2.00E-20	0.77
29938	261399	261978	1.61E-17	0.71
29938	266593	266833	8.63E-16	0.84
29938	273690	273929	3.06E-27	0.75
29938	274312	275296	1.22E-42	0.81
29939	3426	3663	3.80E-12	0.79
29939	49361	49770	2.40E-30	0.81
29939	55405	55954	1.10E-71	0.9
29939	61840	62203	1.19E-21	0.68
29939	89935	90230	3.58E-07	0.97
29939	109886	110230	2.72E-48	0.92
29939	115049	115321	7.05E-39	0.75

29939	122191	122686	8.47E-59	0.93
29939	123382	123993	5.87E-57	0.95
29939	187953	188248	5.94E-07	0.67
29939	207571	208020	2.87E-13	0.8
29939	252139	252737	2.61E-41	0.94
29939	254221	254778	3.55E-41	0.93
29939	255006	256030	9.10E-70	0.87
29939	259226	259721	1.36E-11	0.82
29939	260920	261174	4.38E-18	0.68
29939	281090	281385	3.92E-34	0.91
29939	296135	296550	2.57E-21	0.88
29939	297387	298048	7.77E-43	0.88
29939	299105	299381	3.21E-18	0.75
29939	300462	300905	2.86E-25	0.83
29939	319979	320610	1.92E-49	0.93
29939	325157	326483	1.11E-123	0.76
29939	326757	327233	4.15E-30	0.93
29939	338682	341054	3.41E-126	0.8
29939	370687	371407	1.12E-47	0.82
29939	376612	377802	1.06E-70	0.75
29939	383336	383909	3.24E-32	0.87
29939	386456	387073	1.11E-96	0.98
29939	410075	410421	7.09E-32	0.95
29939	410736	410943	1.06E-38	0.91
29939	462746	463074	1.38E-16	0.85
29939	488990	489229	9.80E-05	1
29939	490312	490917	7.21E-15	0.83
29939	524591	525499	7.36E-24	0.6
29939	531391	531731	1.67E-25	0.83
29939	531958	533530	5.94E-56	0.86
29939	534885	536205	3.48E-151	0.9
29939	536551	536870	2.91E-43	0.86
29939	537144	537410	1.81E-38	0.88
29939	538055	538830	2.40E-158	0.93
29939	555482	555775	3.88E-11	0.64
29939	560771	561339	8.34E-34	0.83
29939	563772	564120	3.75E-07	0.78
29939	573810	574501	7.15E-14	0.84
29940	56686	58031	1.21E-77	0.86
29940	92173	92389	9.39E-43	0.8
29940	97607	98523	4.17E-56	0.84
29940	98851	100831	6.97E-161	0.94
29940	112452	112664	8.23E-32	0.93
29940	137031	137350	4.68E-24	0.97
29940	138057	139283	3.36E-53	0.93
29940	143010	143321	3.01E-20	0.88
29940	219118	219890	1.55E-41	0.94
29940	220185	220652	3.35E-08	0.9
29940	222007	222757	1.59E-18	0.8
29940	301112	301570	2.68E-25	0.77
29940	304108	304414	7.59E-13	0.8
29940	337111	337683	9.05E-32	0.95
29940	339266	340080	1.68E-39	0.85

29940	340414	341027	7.44E-34	0.95
29940	341441	342014	1.74E-49	0.91
29940	343256	343520	7.37E-33	0.89
29940	346604	347735	2.28E-28	0.87
29940	349007	349733	1.38E-56	0.88
29940	350512	351432	2.69E-52	0.83
29940	351678	352455	4.15E-12	0.83
29940	354609	355081	8.57E-29	0.74
29940	355873	356144	1.65E-07	0.87
29941	339	1503	2.85E-53	0.88
29941	9166	9612	9.20E-29	0.9
29941	13393	13980	1.18E-36	0.86
29941	65627	66411	7.47E-50	0.8
29941	66705	66945	6.20E-21	0.9
29941	92836	93378	2.13E-26	0.89
29941	93946	94435	9.13E-48	0.79
29941	95220	95565	2.73E-15	0.89
29941	100127	100564	3.81E-32	0.96
29941	102329	103125	7.98E-58	0.92
29941	108273	109357	5.27E-48	0.74
29941	114084	114517	7.44E-26	0.88
29941	115393	116594	1.19E-77	0.92
29941	129629	130124	6.14E-15	0.8
29941	143735	144116	7.91E-08	0.77
29942	8	955	2.12E-26	0.9
29942	1255	1491	1.42E-16	0.97
29942	13462	14457	5.39E-15	0.89
29942	18718	19850	1.70E-31	0.75
29942	33085	33455	6.13E-16	0.93
29942	36309	36724	7.36E-08	0.89
29942	62993	64015	2.56E-20	0.68
29942	64838	65167	4.19E-25	0.95
29942	102364	102679	7.22E-09	0.77
29942	103145	103447	2.40E-07	0.73
29942	140094	140643	3.26E-25	0.96
29942	152951	154021	6.68E-48	0.69
29942	164646	164953	1.18E-29	0.92
29942	174902	175299	2.82E-42	0.9
29942	176443	176810	4.24E-31	0.98
29942	192333	192805	3.16E-13	0.65
29942	194199	194638	6.60E-34	0.9
29942	293668	295613	1.99E-145	0.93
29942	362090	362588	1.72E-69	0.93
29942	366757	367192	3.91E-150	0.95
29942	367713	368644	1.77E-58	0.93
29942	371247	372075	2.40E-46	0.83
29942	374444	374789	4.30E-19	0.81
29942	377735	378277	2.28E-29	0.82
29942	381457	382070	1.45E-22	0.8
29942	383005	383321	2.57E-17	0.84
29942	407357	407963	5.78E-76	0.9
29942	408171	408586	3.65E-13	0.8
29942	408928	409536	2.30E-11	0.8

29942	463226	463533	3.82E-14	0.72
29942	492044	492332	2.19E-04	0.92
29942	494606	494859	1.70E-08	0.84
29942	498570	499250	9.18E-23	0.91
29942	520888	521331	1.25E-10	0.78
29942	523001	523380	3.58E-20	0.84
29942	524139	524529	1.56E-07	0.91
29942	530726	531963	1.35E-34	0.73
29942	540636	542454	2.61E-61	0.79
29942	598339	598724	1.44E-57	0.95
29942	616478	616779	9.80E-15	0.9
29942	618662	619144	2.85E-09	0.63
29942	624905	625112	5.73E-23	0.86
29942	630369	630611	1.02E-12	0.9
29942	632045	632885	1.24E-16	0.68
29942	634549	634993	5.55E-13	0.78
29942	653014	653818	1.44E-21	0.61
29942	654862	655156	1.97E-11	0.79
29942	659249	659747	7.45E-58	0.92
29942	660694	660954	1.47E-36	0.95
29942	661420	661889	5.89E-18	0.95
29943	251	568	3.63E-15	0.67
29943	1031	1496	2.91E-23	0.88
29943	4255	5416	6.78E-49	0.95
29943	5929	6319	8.34E-19	0.92
29943	21764	22137	1.47E-26	0.68
29943	24351	25197	4.50E-72	0.96
29943	29519	29909	1.11E-16	0.95
29943	81220	82332	5.29E-55	0.75
29943	102686	103723	2.99E-48	0.7
29943	108497	108771	1.47E-08	0.79
29943	112981	113798	5.39E-34	0.79
29943	136766	137135	5.79E-18	0.94
29944	52729	52981	7.29E-33	0.73
29945	7847	8253	4.73E-28	0.89
29945	18256	19251	3.17E-27	0.61
29945	25316	25738	1.61E-10	0.77
29945	26484	27459	2.68E-77	0.77
29945	29643	30145	1.01E-41	0.96
29945	37019	37267	1.06E-14	0.95
29945	38281	38778	1.39E-28	0.78
29945	41897	42356	7.93E-23	0.7
29945	51492	52180	5.21E-98	0.87
29945	56091	56536	1.49E-25	0.82
29945	59965	60770	2.76E-14	0.79
29945	62545	62933	3.33E-38	0.91
29945	63387	64025	8.88E-53	0.93
29945	79088	79493	8.96E-18	0.79
29946	25299	25913	1.60E-13	0.93
29946	43536	44091	1.34E-05	0.83
29948	12822	13245	4.20E-23	0.74
29948	23292	23736	2.75E-20	0.76
29948	23969	24343	6.92E-10	0.81

29948	39592	39930	2.40E-10	0.78
29948	40921	41691	9.18E-116	0.89
29948	62462	62773	2.70E-23	0.75
29948	62982	63970	3.22E-122	0.92
29948	64613	65686	4.76E-66	0.87
29948	65893	66459	1.69E-16	0.89
29948	67920	68207	8.71E-23	0.87
29948	74691	76401	7.69E-115	0.86
29948	88451	88845	6.50E-19	0.71
29948	97330	98034	1.05E-21	0.8
29948	98580	98783	5.50E-33	0.88
29948	101721	102302	1.27E-09	0.78
29948	130649	130885	1.78E-11	0.85
29948	131151	131744	9.83E-15	0.79
29948	171302	171662	2.39E-07	0.8
29948	172785	173693	6.34E-14	0.83
29948	190406	190993	2.63E-29	0.73
29948	217568	218013	9.79E-30	0.94
29948	218216	218928	4.73E-24	0.77
29948	236301	236510	6.51E-83	0.93
29948	236787	237050	1.25E-57	0.91
29948	237743	238245	1.79E-25	0.71
29948	239314	240405	3.40E-40	0.71
29948	246150	246812	5.84E-33	0.81
29948	247183	247832	3.13E-52	0.76
29948	250569	251036	8.81E-19	0.61
29948	251656	251946	3.81E-22	0.91
29948	264537	264957	7.44E-10	0.8
29948	273816	275004	4.14E-85	0.77
29948	300424	301172	1.55E-16	0.6
29948	301696	301931	5.98E-32	0.86
29948	308371	308650	3.41E-14	0.74
29948	312638	313100	3.90E-22	0.82
29948	322048	322546	6.01E-26	0.93
29948	329785	330192	2.40E-34	0.9
29948	336570	338450	5.07E-72	0.84
29948	342884	343833	9.48E-40	0.65
29948	368307	368885	1.14E-98	0.89
29948	392773	393208	1.74E-14	0.84
29948	396118	396563	4.49E-17	0.85
29948	402342	402724	4.68E-16	0.76
29948	424510	424809	1.22E-11	0.77
29949	26758	27423	5.41E-41	0.8
29949	45451	46495	3.01E-57	0.71
29949	54303	55451	1.06E-68	0.82
29950	18574	19157	3.04E-44	0.91
29950	20942	22895	1.32E-149	0.9
29950	29303	31926	7.02E-131	0.69
29950	37199	38374	3.59E-44	0.77
29950	81646	82128	1.92E-22	0.85
29950	82841	83411	4.41E-47	0.79
29950	88704	89026	1.23E-19	0.72
29950	119303	120161	4.54E-45	0.61

29950	130533	130792	1.14E-26	0.88
29950	133162	134014	1.97E-26	0.65
29950	148993	149258	1.30E-22	0.78
29950	157183	158226	3.10E-24	0.8
29950	184439	185230	2.20E-18	0.72
29950	186023	186673	4.82E-41	0.88
29950	187520	187806	4.17E-29	0.82
29950	189084	189387	2.53E-38	0.91
29950	190425	191244	3.36E-23	0.71
29950	214435	215327	4.34E-70	0.84
29950	218506	219017	1.46E-52	0.95
29950	235033	235264	4.15E-16	0.8
29950	235710	236232	6.91E-15	0.88
29950	236452	237072	1.29E-23	0.81
29950	256948	259248	8.65E-108	0.82
29950	259463	260288	1.16E-127	0.85
29950	296579	297278	6.36E-31	0.68
29950	300057	300628	1.24E-23	0.68
29950	330875	331575	1.11E-28	0.76
29950	332278	333597	8.18E-61	0.68
29950	340703	340912	1.65E-17	0.86
29950	341117	341441	2.02E-39	0.91
29950	341720	342493	4.85E-36	0.83
29950	393949	394379	5.75E-25	0.87
29950	398035	399383	9.97E-43	0.75
29950	412477	412965	5.09E-21	0.91
29950	414148	414675	1.35E-29	0.73
29951	707	2185	1.00E-72	0.9
29951	3083	5602	6.31E-231	0.93
29951	5602	6393	2.95E-113	0.96
29951	45864	46358	6.90E-33	0.98
29951	46693	47477	2.36E-59	0.97
29951	74557	74932	1.21E-22	0.94
29951	82627	83473	1.43E-44	0.82
29951	83978	84787	5.32E-37	0.67
29951	86340	87714	9.03E-50	0.82
29951	88528	89179	2.31E-42	0.9
29951	97118	97479	1.66E-22	0.92
29953	16096	16792	2.61E-29	0.75
29953	17184	17900	1.66E-92	0.88
29953	19919	20573	2.72E-15	0.8
29953	31012	31428	1.68E-25	0.9
29953	60447	60737	5.59E-23	0.7
29953	74315	74858	8.98E-18	0.8
29953	76618	76860	3.58E-12	0.62
29953	84961	85319	1.32E-15	0.89
29953	89691	90055	2.35E-37	0.9
29953	101836	102153	2.18E-07	1
29953	162826	163825	7.72E-53	0.7
29953	164183	164721	5.15E-27	0.82
29953	167058	167390	3.03E-12	0.69
29953	171923	172276	1.37E-14	0.74
29953	177770	178008	1.50E-26	0.92

29953	181125	181426	3.99E-13	0.8
29953	181830	182327	1.27E-46	0.9
29953	199824	200072	8.59E-12	0.82
29953	200453	201376	6.13E-37	0.89
29953	204603	204890	9.75E-18	0.84
29953	206686	207168	9.17E-20	0.78
29953	209833	211176	1.69E-51	0.79
29953	256203	257215	9.06E-94	0.85
29953	260651	261388	5.46E-36	0.94
29954	4082	4408	1.96E-08	0.97
29954	36890	37330	6.13E-11	0.73
29954	46002	46391	3.97E-14	0.9
29954	46638	47038	3.74E-12	0.85
29954	47723	48588	5.54E-13	0.98
29954	56806	57058	1.08E-28	0.9
29954	61519	61752	3.58E-15	0.84
29954	72855	73087	8.83E-07	0.77
29954	108838	109435	1.20E-11	0.6
29954	138877	139205	2.12E-19	0.93
29954	152789	153257	8.62E-13	0.96
29954	187397	187993	1.44E-70	0.96
29954	195248	196065	5.38E-48	0.92
29954	196628	196998	1.12E-21	0.88
29954	197384	198039	8.89E-25	0.92
29954	198325	198847	5.60E-10	0.84
29954	237479	237682	9.52E-07	0.83
29954	239795	240010	3.17E-11	0.85
29954	257781	258551	2.20E-06	0.9
29954	258941	259236	3.88E-09	0.92
29954	314180	314393	2.42E-07	0.93
29954	315835	316077	3.39E-20	0.8
29954	323790	324028	7.04E-05	0.78
29954	367193	367561	2.26E-09	0.96
29955	8730	9122	1.94E-24	0.78
29955	18598	18808	7.46E-12	0.84
29955	30267	31545	6.57E-127	0.94
29955	31891	32648	2.15E-90	0.91
29955	44598	45016	2.15E-14	0.83
29955	45772	46370	1.35E-47	0.92
29955	51081	51326	3.51E-19	0.91
29955	52329	52790	1.70E-15	0.72
29955	53005	53320	1.19E-67	0.94
29955	54264	55079	3.20E-101	0.93
29955	55456	56758	2.26E-27	0.77
29955	57593	57939	3.87E-17	0.82
29955	122154	122497	5.14E-05	0.67
29955	152735	152943	1.72E-09	0.85
29955	222080	222756	1.32E-29	0.85
29955	309414	309906	7.34E-04	0.84
29955	319937	320476	3.61E-26	0.94
29955	441119	441406	2.20E-04	0.88
29955	466768	467987	2.58E-95	0.94
29955	470034	470516	1.13E-39	0.94

29955	470969	471633	2.62E-65	0.87
29955	472705	473108	3.41E-33	0.88
29955	473693	474159	3.89E-22	0.74
29955	479212	479660	2.06E-36	0.83
29955	479862	480137	2.07E-28	0.92
29955	480849	481101	1.58E-19	0.99
29955	481396	481598	3.20E-33	0.95
29955	482822	483620	1.14E-30	0.63
29955	539828	540314	9.19E-12	1
29955	546109	546338	7.25E-23	0.96
29955	559625	560175	2.29E-33	0.97
29955	650852	651498	9.87E-19	0.83
29955	719933	720286	4.89E-10	0.95
29955	761455	762061	2.11E-43	0.76
29955	762725	763534	3.45E-40	0.88
29955	766696	767362	4.82E-24	0.81
29955	809220	810861	9.24E-70	0.77
29955	815271	815651	1.85E-65	0.92
29955	817200	817443	3.46E-45	0.97
29955	817656	817988	4.13E-44	0.95
29955	827798	828411	2.54E-09	0.82
29955	833487	834149	3.41E-36	0.95
29955	836019	836452	2.19E-20	0.93
29955	862336	863199	4.49E-40	0.74
29955	863400	865796	4.56E-126	0.87
29955	873300	873854	1.97E-29	0.91
29955	875538	877143	1.81E-44	0.8
29955	878779	879027	2.86E-13	0.82
29955	879326	879697	1.01E-40	0.93
29955	884211	884739	5.92E-56	0.97
29955	918497	918721	1.08E-05	0.95
29955	947136	947497	4.75E-12	0.88
29955	974034	974833	6.59E-35	0.82
29955	978108	978534	2.81E-23	0.88
29955	1002650	1003701	5.42E-52	0.76
29955	1010062	1010762	7.53E-24	0.79
29955	1012266	1012516	5.20E-57	0.94
29955	1012872	1014059	1.01E-96	0.89
29955	1019387	1020337	6.29E-38	0.87
29955	1020539	1020805	2.14E-34	0.92
29955	1022219	1023421	6.60E-77	0.91
29955	1026568	1026840	5.19E-26	0.95
29955	1027526	1028058	8.52E-23	0.89
29956	26215	26621	8.17E-20	0.86
29956	26890	27480	1.24E-16	0.81
29956	43832	44225	4.84E-24	0.67
29956	49743	50107	5.27E-18	0.85
29956	50751	50987	3.28E-12	0.83
29957	35948	36358	5.29E-20	0.74
29957	53927	54952	4.93E-56	0.96
29957	142625	144127	3.28E-43	0.84
29957	202536	202933	2.42E-54	0.98
29957	221501	222542	2.60E-29	0.85

29957	224218	224825	3.77E-24	0.78
29957	248795	249164	2.13E-10	0.77
29957	249527	250028	1.51E-42	0.94
29957	313329	314458	1.34E-63	0.81
29957	320767	321266	1.17E-108	0.96
29957	392581	392988	1.67E-18	0.91
29957	399330	400001	2.12E-23	0.69
29957	400837	401331	1.37E-15	0.74
29957	407676	408348	7.67E-92	0.93
29957	425346	425669	3.86E-21	0.9
29957	437032	437534	6.58E-32	0.87
29957	497720	497935	1.60E-16	0.9
29957	557737	559239	9.45E-122	0.97
29957	563183	564018	1.30E-15	0.97
29957	577944	578908	9.02E-59	0.93
29957	593656	593970	2.99E-22	0.85
29957	594181	594512	8.10E-19	0.74
29957	617741	618482	3.03E-80	0.96
29957	618761	619383	1.03E-61	0.98
29957	631448	631930	7.98E-62	0.87
29957	632334	633057	4.75E-59	0.93
29957	635284	635866	4.95E-17	0.84
29957	636102	636332	1.85E-25	0.9
29957	647307	647809	1.05E-12	0.97
29957	709884	710632	5.46E-41	0.96
29957	717769	718450	1.77E-47	0.9
29957	718685	719507	2.41E-70	0.94
29957	719751	720092	3.94E-46	0.94
29957	720355	720745	2.76E-49	0.95
29957	721235	722156	2.25E-98	0.95
29957	739029	739437	4.16E-40	0.95
29957	740805	741149	4.18E-27	0.95
29957	742142	742489	9.08E-21	0.97
29957	745554	745878	1.03E-25	0.78
29957	746300	746609	7.15E-80	0.93
29957	747604	748816	4.64E-71	0.64
29957	782478	783289	2.43E-34	0.88
29957	787246	787821	4.32E-12	0.77
29957	793512	793943	8.58E-09	0.98
29957	807660	808135	9.14E-09	0.9
29957	809672	809976	1.40E-06	1
29957	810204	810454	2.45E-18	0.79
29957	811133	811416	5.44E-11	0.82
29957	939770	940168	2.26E-29	0.97
29957	995146	995745	1.05E-29	0.89
29957	995991	997047	2.22E-31	0.81
29957	998442	998756	2.41E-44	0.89
29957	1004552	1005109	5.32E-45	0.96
29957	1005520	1005812	1.96E-30	0.9
29957	1041598	1042391	6.24E-23	0.87
29957	1047735	1048330	4.29E-82	0.93
29957	1048787	1049122	2.55E-71	0.91
29957	1059348	1059601	7.67E-30	0.95

29957	1102028	1102287	2.48E-10	0.98
29957	1108026	1108317	8.16E-07	0.66
29957	1115353	1115684	4.66E-15	0.97
29957	1139335	1139686	2.63E-17	0.82
29957	1139967	1140379	3.09E-15	0.83
29957	1155646	1156044	6.31E-77	0.94
29957	1158370	1158732	2.50E-37	0.86
29957	1160168	1160613	9.61E-23	0.93
29957	1160912	1161312	1.33E-23	0.94
29957	1167712	1167950	1.52E-10	0.74
29957	1172752	1173065	4.42E-09	0.83
29958	98104	98930	1.18E-05	0.91
29958	238362	238603	2.89E-04	0.85
29958	257131	257794	2.12E-26	0.89
29958	274167	274847	8.00E-09	0.88
29958	339477	339874	2.72E-10	0.87
29958	341442	341750	3.71E-64	0.95
29958	350026	350228	2.22E-22	0.95
29958	359790	360181	2.97E-18	0.95
29958	389792	390139	1.31E-06	0.95
29958	400514	401445	4.59E-35	0.88
29958	408795	409063	4.38E-17	0.94
29958	467688	468210	6.43E-21	0.86
29958	468729	469180	1.35E-26	0.86
29958	469417	470735	5.71E-52	0.82
29958	487637	488037	1.85E-35	0.98
29958	490901	491132	2.48E-23	0.98
29958	502999	503696	1.73E-14	0.9
29958	532299	532687	7.54E-23	0.97
29958	566943	567215	8.97E-14	0.94
29958	685903	686397	1.10E-10	0.98
29958	850471	850745	2.02E-07	0.89
29958	858211	858926	2.54E-36	0.9
29958	859185	859803	2.56E-50	0.95
29958	860036	860491	1.01E-36	0.92
29958	925371	925640	3.71E-25	0.93
29958	932925	933585	1.08E-39	0.72
29958	990118	990797	2.06E-11	0.69
29958	1001703	1002077	3.64E-10	0.79
29958	1048647	1049960	5.49E-66	0.95
29958	1080670	1081082	1.86E-49	0.96
29958	1122893	1123146	1.01E-20	0.85
29958	1162842	1163458	2.38E-14	0.96
29958	1172795	1173734	2.12E-31	0.91
29958	1174010	1174556	1.86E-52	0.93
29958	1225839	1226210	1.83E-14	0.88
29958	1260865	1261171	1.53E-45	0.93
29958	1267551	1268249	6.95E-91	0.93
29958	1277729	1278065	1.18E-06	0.82
29958	1295375	1295601	2.47E-04	0.85
29958	1346189	1346438	1.01E-03	0.78
29958	1445824	1446201	1.19E-05	1
29959	13493	13746	1.01E-20	0.87

29960	17586	18074	4.98E-10	0.82
29960	25150	25577	3.75E-37	0.92
29960	25908	26497	1.67E-58	0.89
29960	53015	53651	3.89E-09	0.97
29960	54995	55670	1.09E-93	0.89
29960	93785	94135	6.63E-06	0.85
29962	3368	3593	1.10E-06	1
29962	6662	6893	2.76E-31	0.95
29962	25045	25853	6.27E-54	0.9
29962	30175	32249	7.55E-81	0.85
29962	42044	43082	1.62E-95	0.74
29962	43303	43870	3.62E-56	0.92
29963	18374	18764	3.90E-06	0.88
29963	82565	83088	3.14E-11	0.94
29963	116762	117008	1.03E-09	0.86
29963	118471	118743	3.76E-05	0.92
29963	139715	139989	1.22E-13	0.86
29963	140219	140484	7.19E-15	0.78
29963	159752	160053	4.66E-06	0.89
29963	225622	226249	7.07E-12	0.87
29963	236579	236831	2.11E-06	0.83
29963	237242	237551	4.13E-06	0.9
29964	25694	26034	3.52E-35	0.94
29964	33986	34200	3.61E-09	0.78
29964	41545	42181	2.29E-41	0.72
29964	42526	43592	1.75E-44	0.74
29964	49965	50719	5.36E-52	0.92
29964	50930	51418	8.68E-65	0.96
29964	51637	52208	1.47E-53	0.91
29964	52907	53177	4.59E-34	0.94
29964	53809	54347	1.07E-33	0.73
29964	59792	60463	3.64E-33	0.87
29964	61850	62862	2.15E-72	0.89
29964	81462	81995	2.61E-25	0.95
29964	83692	84077	5.02E-20	0.95
29964	98934	99234	6.60E-20	0.85
29964	101424	102233	3.77E-31	0.8
29964	102775	103322	4.10E-21	0.87
29964	103803	104422	2.17E-44	0.84
29964	111253	111798	1.10E-47	0.95
29964	113801	114201	1.70E-11	0.81
29964	138343	138984	6.64E-30	0.89
29965	6322	6763	4.35E-08	0.83
29966	48100	48636	1.84E-53	0.96
29966	50255	51016	1.15E-56	0.92
29966	51960	52315	3.43E-21	0.95
29966	56099	56979	1.16E-33	0.81
29966	90538	91045	4.54E-16	0.67
29966	94836	95403	6.34E-38	0.95
29966	96086	96380	4.19E-09	0.88
29966	106095	106544	9.08E-19	0.88
29966	121782	122117	5.39E-21	0.92
29966	123132	124028	1.59E-49	0.89

29967	651	1107	1.71E-10	0.78
29967	13429	13916	8.31E-29	0.87
29967	26900	27334	1.48E-43	0.95
29967	31237	32051	1.96E-45	0.75
29967	41591	41901	7.67E-27	0.93
29967	42193	42786	7.02E-30	0.83
29967	58823	59171	3.66E-07	0.71
29967	69160	69586	1.86E-19	0.63
29968	11640	12888	1.54E-65	0.76
29968	95601	96690	1.07E-28	0.77
29968	104111	104448	4.38E-22	0.65
29968	110393	112588	8.47E-169	0.92
29968	122226	122928	2.26E-61	0.92
29968	123438	124085	1.43E-18	0.8
29968	129949	130330	4.45E-21	0.75
29968	164745	164948	4.92E-09	0.6
29968	177665	178161	3.05E-27	0.86
29968	178862	179223	1.18E-19	0.79
29968	181436	181775	1.59E-09	0.8
29968	203885	206090	9.70E-91	0.67
29968	257701	258839	2.11E-53	0.76
29968	266148	266629	9.08E-09	0.75
29968	272337	272547	3.13E-18	0.75
29968	272779	273310	5.33E-19	0.85
29968	275598	275800	2.05E-19	0.85
29968	286329	286777	2.36E-09	0.91
29969	2700	3211	5.34E-09	0.6
29969	105441	106172	4.39E-17	0.77
29969	112476	112914	7.54E-35	0.93
29969	134319	134998	6.76E-34	0.87
29970	12715	13124	2.64E-54	0.76
29970	45560	46393	2.17E-48	0.8
29970	47843	48092	9.20E-11	0.88
29970	59877	60161	7.95E-07	0.75
29970	60170	60496	2.38E-11	0.83
29970	60903	61538	4.31E-30	0.79
29970	88691	89022	5.13E-13	0.66
29970	147158	147491	2.26E-17	0.75
29970	147867	148429	4.84E-29	0.89
29970	152508	152785	3.19E-27	0.86
29970	160323	161070	8.62E-17	0.78
29970	250510	250973	5.49E-31	0.96
29970	251298	251609	2.72E-43	0.97
29970	257182	257467	5.56E-10	0.8
29970	314845	315230	1.84E-24	0.61
29970	325610	326781	6.77E-88	0.89
29970	339592	340079	6.96E-52	0.85
29970	340428	340819	5.48E-58	0.84
29970	345307	345765	8.72E-44	0.84
29970	347643	348552	3.39E-36	0.79
29970	366508	366908	8.45E-31	0.75
29970	367956	368389	2.78E-18	0.86
29970	389297	389791	2.57E-36	0.95

29970	390177	390869	2.90E-35	0.84
29970	394094	394307	8.52E-16	0.87
29970	409161	409762	1.27E-55	0.85
29970	441838	442327	5.24E-07	0.75
29970	443492	443822	1.06E-08	0.96
29971	1090	1362	4.55E-07	0.89
29971	5284	5594	3.27E-12	0.83
29971	55369	55742	1.66E-12	0.95
29971	128456	128876	1.90E-11	0.91
29971	132555	132874	9.73E-15	0.96
29971	146320	146878	2.84E-07	0.91
29971	151257	151551	3.03E-03	0.82
29971	155520	155753	1.91E-12	0.78
29971	170407	170639	2.25E-136	0.91
29971	197021	197675	1.14E-05	0.87
29971	197731	197932	5.74E-09	0.88
29971	232585	232813	3.44E-05	0.86
29971	232738	232961	4.77E-08	0.88
29971	253349	253701	3.10E-06	0.8
29971	272189	272478	2.56E-06	0.78
29973	34032	34253	2.34E-09	0.7
29973	46164	46868	1.48E-21	0.92
29973	71765	72654	2.85E-109	0.9
29973	88757	89543	7.46E-26	0.83
29973	93318	93889	2.28E-53	0.78
29973	100818	101691	3.69E-81	0.79
29973	114355	114763	1.36E-08	0.97
29973	140381	141301	8.29E-40	0.61
29973	142118	142434	2.57E-46	0.93
29973	150216	150447	1.91E-44	0.81
29973	181804	182203	1.11E-14	0.83
29973	196831	197250	2.01E-36	0.86
29973	202854	203427	8.20E-33	0.97
29973	205114	206000	2.36E-49	0.97
29973	208416	208751	6.85E-21	0.89
29974	63364	64036	7.01E-32	0.85
29974	68421	68894	1.59E-30	0.71
29974	69214	69714	4.28E-41	0.84
29974	74040	74727	6.32E-32	0.95
29974	121187	121523	2.28E-32	0.72
29975	7342	7563	1.53E-04	0.91
29975	43646	43981	9.06E-19	0.84
29975	62046	62263	2.98E-09	0.78
29975	63852	64062	3.61E-06	0.84
29975	97184	97487	3.74E-17	0.88
29975	110905	111236	2.72E-12	0.9
29975	123447	123971	5.59E-07	0.85
29975	170395	170715	4.96E-09	0.81
29975	185737	186348	6.09E-17	0.77
29975	220373	220843	4.08E-10	0.85
29975	273780	274032	7.63E-09	0.81
29975	321480	321804	3.74E-05	0.95
29975	379894	381265	1.88E-61	0.74

29975	384431	386258	3.37E-130	0.8
29975	491713	491978	1.03E-03	0.87
29975	540086	540320	7.46E-12	0.88
29975	560157	560531	6.60E-04	0.88
29975	579683	580131	1.69E-07	0.91
29975	631632	631861	1.81E-06	0.77
29975	657596	658528	2.24E-09	0.79
29975	666619	668428	8.09E-87	0.8
29975	668692	670283	3.32E-62	0.86
29975	680675	681510	7.73E-91	0.93
29975	685480	685709	9.39E-16	0.9
29975	686219	686723	1.18E-16	0.93
29975	722706	723394	1.38E-10	0.97
29975	724722	725187	7.01E-12	0.96
29976	26379	27736	1.28E-113	0.94
29976	50139	50341	3.39E-18	0.91
29976	95610	96138	2.74E-38	0.97
29976	122422	122681	1.29E-17	0.95
29976	146055	148063	7.87E-104	0.95
29976	174434	174704	4.12E-24	0.97
29976	174909	175299	7.42E-17	0.94
29976	197174	198870	3.46E-118	0.95
29976	210873	211812	1.24E-39	0.91
29976	212753	212985	1.81E-22	0.87
29976	213239	214185	2.98E-34	0.76
29976	214394	214672	2.37E-38	0.91
29976	215457	216605	2.74E-23	0.6
29976	240563	241528	2.68E-35	0.94
29976	242483	243096	5.48E-08	0.8
29976	261603	262046	4.24E-12	0.72
29976	266021	266445	5.96E-118	0.95
29976	309205	309589	1.15E-66	0.97
29976	309935	310315	2.89E-70	0.96
29976	324950	325496	8.57E-78	0.95
29976	357389	358094	1.01E-25	0.7
29976	385020	385582	4.62E-87	0.95
29976	386016	386364	3.42E-19	0.88
29976	388056	388919	8.64E-108	0.64
29976	406140	406458	1.20E-33	0.94
29976	450359	450794	9.33E-26	0.83
29976	455681	458977	1.24E-121	0.83
29976	464293	466506	4.39E-138	0.81
29976	478751	479236	3.29E-30	0.95
29976	492637	493234	8.71E-18	0.89
29977	1532	1740	6.08E-09	0.84
29977	22601	22991	2.20E-18	0.88
29977	23515	24187	2.33E-67	0.83
29977	46147	46939	8.23E-32	0.78
29977	69989	70543	2.29E-74	0.79
29977	71144	72021	6.97E-37	0.81
29977	83974	84271	2.62E-19	0.73
29977	93953	94559	1.72E-29	0.68
29980	11303	11934	1.28E-84	0.9

29980	72507	73170	7.35E-64	0.85
29980	89657	90362	1.05E-32	0.88
29980	110075	110391	4.81E-18	0.86
29980	111797	112195	2.84E-10	0.81
29980	124541	124847	1.94E-17	0.78
29980	125219	125496	3.10E-29	0.81
29980	126093	126413	2.10E-37	0.96
29980	146629	146879	2.34E-27	0.89
29981	62594	62899	1.70E-12	0.8
29981	74588	74825	1.33E-27	0.87
29981	75260	76012	7.70E-47	0.86
29981	76922	77225	2.57E-35	0.96
29981	119698	119929	3.35E-07	0.8
29981	122535	123449	1.72E-17	0.66
29981	162379	163703	1.31E-36	0.66
29981	172054	172487	8.55E-10	0.85
29981	172393	172842	2.05E-09	0.94
29981	183138	183977	3.97E-62	0.82
29981	184407	184730	1.17E-34	0.88
29981	185397	186617	4.12E-112	0.92
29981	187650	189080	1.70E-34	0.7
29981	189622	189894	8.06E-35	0.82
29981	210509	211084	8.70E-18	0.79
29981	212857	213129	3.51E-27	0.88
29981	221940	222227	9.93E-23	0.92
29981	248191	248664	4.51E-41	0.88
29981	248982	249747	6.15E-29	0.71
29982	33770	34202	3.99E-09	0.82
29982	37529	39583	1.54E-177	0.94
29982	48032	48432	1.55E-36	0.8
29982	49015	49270	1.17E-21	0.9
29982	49502	50194	1.53E-28	0.91
29983	2608	3305	1.91E-48	0.86
29983	14551	14794	6.56E-63	0.89
29983	18378	18872	1.56E-105	0.78
29983	34327	34536	7.26E-15	0.78
29983	72687	73365	7.12E-50	0.82
29983	87373	87771	1.43E-11	0.81
29983	88084	88896	2.63E-54	0.87
29983	95720	96492	3.15E-33	0.87
29983	100408	100714	1.32E-09	0.75
29983	120598	120892	2.43E-19	0.9
29983	121472	122467	1.34E-27	0.8
29983	151533	151916	3.43E-12	0.81
29983	154031	154466	2.63E-28	0.92
29983	155165	155408	2.71E-21	0.86
29983	155612	155873	2.35E-15	0.71
29983	165380	166038	2.70E-16	0.7
29983	168556	168789	5.67E-11	0.67
29983	191684	192400	3.81E-37	0.74
29983	200836	201818	3.30E-35	0.79
29983	202408	204732	1.33E-115	0.9
29983	253616	254191	3.64E-21	0.72

29983	254786	255692	2.69E-65	0.87
29983	297756	298044	6.94E-51	0.93
29983	298357	298783	1.83E-31	0.74
29983	306606	307350	2.52E-08	0.91
29983	313710	314042	1.19E-06	0.89
29983	318182	318435	6.68E-27	0.87
29983	325995	326714	1.16E-61	0.87
29983	333103	333534	2.77E-19	0.82
29983	338064	338979	6.12E-84	0.9
29983	339587	340277	6.22E-25	0.81
29983	344778	346098	1.24E-59	0.65
29983	355815	356618	3.12E-24	0.71
29983	371925	373025	2.89E-80	0.88
29983	373260	374540	1.05E-60	0.84
29983	430426	431983	3.29E-78	0.89
29983	434153	434986	1.42E-37	0.87
29983	439055	439567	1.53E-16	0.7
29983	458532	458801	4.14E-15	0.89
29983	478259	478533	2.49E-33	0.8
29983	478816	479089	3.78E-14	0.86
29983	485558	485779	4.48E-13	0.7
29983	486049	486774	1.65E-45	0.84
29983	514546	515353	2.83E-34	0.82
29983	517062	517405	1.72E-18	0.8
29983	525776	526725	1.63E-77	0.86
29983	526980	530117	6.29E-165	0.82
29983	549892	550441	1.04E-90	0.84
29983	569325	572225	2.62E-99	0.66
29983	598291	599436	3.14E-38	0.64
29983	607190	607743	1.86E-35	0.89
29983	633930	634599	1.76E-17	0.87
29983	634951	635396	2.37E-37	0.93
29983	645187	645495	8.79E-12	0.73
29983	648637	649529	6.90E-39	0.83
29983	701475	702382	4.76E-36	0.83
29983	714740	715195	8.23E-23	0.68
29983	732897	733232	2.36E-10	0.73
29983	769786	771805	4.23E-181	0.79
29983	772013	772361	9.94E-19	0.69
29983	775001	775255	4.80E-13	0.8
29983	814401	814883	1.43E-35	0.85
29983	819926	820327	8.65E-21	0.9
29983	825605	825844	5.00E-28	0.88
29983	827135	827734	3.86E-35	0.78
29983	855633	855979	9.19E-17	0.76
29983	856789	857381	3.40E-20	0.78
29983	862574	862910	2.03E-27	0.7
29983	863478	864035	4.38E-32	0.8
29983	879911	880575	5.89E-12	0.71
29983	886663	887385	8.29E-27	0.79
29983	887664	888224	1.93E-35	0.83
29983	899888	901334	1.32E-60	0.63
29983	917903	918667	6.98E-49	0.9

29983	925840	926346	4.50E-15	0.8
29983	938152	938593	1.44E-06	0.65
29983	974715	975407	2.82E-24	0.83
29983	975759	975963	1.30E-13	0.86
29983	995084	995721	3.36E-21	0.65
29983	998219	998577	6.37E-15	0.9
29983	1003992	1004581	5.27E-38	0.86
29983	1007209	1008681	1.99E-53	0.68
29983	1022673	1022925	2.61E-29	0.87
29983	1030700	1031859	1.47E-57	0.74
29983	1032473	1033649	2.59E-80	0.83
29983	1035118	1035873	2.65E-32	0.63
29983	1044311	1044600	4.19E-22	0.84
29983	1063182	1063499	2.23E-18	0.98
29983	1065468	1065808	1.22E-19	0.88
29983	1078451	1079572	7.14E-71	0.89
29983	1100537	1100761	1.84E-11	0.83
29983	1105876	1106156	3.37E-11	0.79
29983	1122037	1122290	1.06E-07	0.81
29983	1124459	1124728	8.32E-09	0.76
29983	1127604	1127845	8.53E-30	0.9
29983	1137497	1137762	1.45E-08	0.78
29984	120307	120949	1.53E-10	0.85
29984	166853	167123	5.15E-11	0.78
29984	181025	181429	4.50E-08	0.93
29984	210297	211340	1.45E-15	0.87
29984	217796	218018	2.33E-07	0.92
29984	256120	256332	6.17E-06	1
29985	8829	9063	4.32E-06	0.92
29986	4874	5136	3.24E-21	0.81
29986	5467	6137	2.27E-37	0.79
29986	6442	8245	2.46E-57	0.82
29986	23359	23653	3.79E-08	0.8
29986	26601	27719	2.63E-22	0.83
29986	28289	28735	6.05E-14	0.71
29986	31006	31324	7.35E-12	0.79
29986	56396	56635	1.10E-18	0.88
29986	62919	63343	8.87E-25	0.8
29986	108959	109360	1.24E-13	0.78
29986	148518	148915	7.86E-20	0.7
29986	149258	149553	9.41E-29	0.96
29986	149893	150553	1.23E-67	0.89
29986	151179	151455	3.90E-18	0.83
29986	172249	172619	1.92E-21	0.81
29986	231752	232368	9.16E-29	0.92
29986	232606	233250	1.54E-24	0.8
29986	237559	237844	1.01E-26	0.8
29986	247517	247767	6.84E-20	0.86
29986	251381	252128	2.71E-25	0.68
29986	252645	252972	2.51E-18	0.92
29986	254773	255190	5.45E-26	0.98
29986	258854	259196	3.87E-23	0.84
29986	259428	259886	7.39E-20	0.7

29986	306025	306656	2.27E-30	0.89
29986	312811	313473	2.15E-36	0.64
29986	341504	342899	1.03E-50	0.8
29986	344492	344787	2.43E-19	0.89
29986	349783	350124	3.18E-10	0.88
29986	350360	350898	1.46E-51	0.97
29986	365815	366243	3.20E-54	0.88
29986	366468	366813	2.77E-36	0.9
29986	367029	367430	8.42E-80	0.92
29986	367654	368301	7.84E-41	0.68
29986	401945	402292	7.79E-21	0.72
29986	434009	435098	9.62E-66	0.87
29986	436315	437912	1.37E-106	0.88
29986	438397	438803	2.63E-25	0.87
29986	471157	471592	3.28E-30	0.83
29986	505901	506614	5.10E-21	0.82
29986	529129	531502	2.40E-276	0.89
29986	541051	541263	3.91E-22	0.75
29987	75171	75412	1.06E-07	0.87
29987	152867	153215	4.96E-07	1
29987	153451	153957	1.19E-16	0.85
29988	10980	11348	1.35E-17	0.83
29988	66710	67127	5.10E-32	0.83
29989	1104	1484	3.68E-53	0.87
29989	6401	6799	4.52E-42	0.81
29989	21048	21270	8.65E-11	0.73
29989	33673	34882	5.73E-51	0.74
29989	49461	50010	1.57E-66	0.95
29989	56263	56926	8.01E-26	0.84
29989	57023	57227	7.72E-20	0.89
29989	72684	72916	2.28E-21	0.87
29989	101910	102546	4.34E-24	0.75
29989	110187	110920	1.03E-14	0.74
29989	138754	140437	1.03E-123	0.92
29989	163886	164565	2.74E-41	0.78
29989	188623	189298	4.81E-45	0.82
29989	189658	190029	5.50E-17	0.78
29989	243527	243917	5.54E-34	0.85
29989	258269	258584	4.32E-31	0.93
29989	260613	260969	5.82E-11	0.81
29990	25200	25605	4.29E-21	0.87
29990	26833	27134	5.27E-23	0.94
29990	43229	43455	8.87E-24	0.93
29990	44855	45308	3.15E-14	0.83
29990	70229	71107	1.83E-41	0.89
29990	87922	88289	9.24E-34	0.92
29990	92778	93144	1.69E-09	0.8
29990	100061	100483	1.22E-06	0.85
29990	116971	117562	1.10E-12	0.65
29990	142438	142823	6.77E-36	0.89
29990	150748	151208	1.14E-38	0.77
29990	229208	229755	3.12E-24	0.8
29990	229977	230285	9.14E-23	0.88

29990	231546	232548	7.29E-57	0.89
29990	234837	235368	1.33E-26	0.85
29990	235611	236342	4.02E-44	0.88
29990	266064	266428	1.01E-10	0.68
29990	268410	269858	6.14E-65	0.94
29990	272117	272592	5.64E-11	0.68
29991	8367	8581	1.74E-21	0.82
29991	9527	10123	4.48E-49	0.95
29991	15218	15675	1.65E-27	0.8
29991	20038	20660	8.61E-31	0.65
29991	20991	21202	1.19E-17	0.69
29991	36769	36999	5.46E-38	0.95
29991	47190	47635	1.21E-40	0.82
29991	48594	49237	1.08E-26	0.62
29991	81200	81539	7.29E-27	0.77
29991	89441	90009	1.89E-32	0.76
29991	102136	104074	1.68E-90	0.84
29991	105021	106139	4.29E-45	0.85
29991	107262	107767	1.05E-39	0.82
29991	110234	111719	5.70E-64	0.77
29991	161755	162247	2.62E-34	0.61
29991	191857	192430	1.85E-31	0.77
29991	205110	205613	2.78E-52	0.65
29991	209600	210110	8.96E-15	0.76
29991	210530	211723	3.92E-47	0.8
29991	211965	213804	1.57E-70	0.88
29991	214366	214697	1.53E-24	0.93
29991	215015	215491	7.40E-42	0.73
29991	294577	295245	2.51E-10	0.6
29991	303790	304848	2.34E-58	0.87
29992	311	876	4.16E-16	0.77
29992	528	952	1.36E-18	0.84
29992	11527	11806	9.83E-04	0.83
29992	24457	24662	7.55E-14	0.95
29992	33776	34168	8.86E-51	0.94
29992	39620	40050	1.15E-42	0.95
29992	45236	45568	2.31E-31	0.88
29992	52379	53056	4.20E-35	0.77
29992	55083	55668	5.75E-27	0.86
29992	56783	58603	1.38E-99	0.88
29992	60731	61021	4.32E-20	0.88
29992	64304	64629	1.23E-17	0.76
29992	82606	82822	2.56E-15	0.83
29992	83544	83916	1.13E-15	0.7
29992	98440	100382	4.65E-172	0.95
29992	137331	137736	6.21E-52	0.94
29992	140084	141397	5.46E-48	0.92
29992	141639	142176	1.57E-89	0.92
29992	142597	142934	2.99E-59	0.94
29992	144270	144702	6.68E-32	0.91
29992	164957	165236	5.03E-56	0.95
29992	171127	171921	1.14E-106	0.93
29992	172390	172708	1.04E-26	0.81

29992	197740	198471	1.03E-27	0.89
29992	206645	207081	1.12E-50	0.92
29992	213896	214477	2.40E-95	0.95
29992	217134	217915	6.02E-21	0.86
29992	218545	218764	6.23E-25	0.9
29992	222271	222893	1.06E-38	0.88
29992	307612	307956	4.02E-13	0.84
29992	336048	336513	8.52E-38	0.94
29992	348599	348808	4.73E-37	0.94
29992	349482	349763	1.20E-30	0.98
29992	360381	360953	4.77E-15	0.79
29992	402489	402803	9.31E-07	0.71
29992	410893	411492	7.72E-25	0.98
29992	412997	413425	1.42E-17	0.88
29992	418744	419206	7.33E-44	0.94
29992	437545	437997	1.42E-10	0.82
29992	450811	451440	4.24E-22	0.89
29992	465935	466279	2.02E-44	0.92
29992	468833	469473	4.64E-35	0.9
29992	471610	472056	1.18E-48	0.96
29992	473586	473841	2.93E-26	0.93
29992	475539	475946	4.78E-28	0.94
29992	477596	477965	2.02E-34	0.72
29992	478299	478561	1.59E-29	0.74
29992	484892	485189	2.40E-07	0.8
29992	501609	502064	4.06E-21	0.92
29992	515418	515980	5.76E-43	0.93
29992	540982	541649	4.11E-47	0.92
29992	543028	543266	1.33E-24	0.92
29992	556760	557270	8.69E-14	0.84
29992	557698	558068	2.53E-21	0.94
29992	566408	566767	3.95E-10	0.84
29992	600622	600942	4.15E-11	0.75
29992	638453	639174	1.25E-26	0.8
29992	658168	658531	2.29E-16	0.93
29992	659858	660219	4.62E-21	0.88
29992	669593	670412	4.90E-104	0.95
29992	679502	679720	3.24E-05	0.93
29992	681198	681560	1.84E-19	0.89
29992	682170	682836	2.43E-62	0.97
29992	707282	707623	1.43E-06	1
29992	711104	711608	5.52E-11	0.9
29992	715657	717299	1.29E-69	0.82
29992	718164	718517	1.01E-27	0.97
29992	719319	719882	8.92E-62	0.92
29992	720702	720930	6.55E-40	0.96
29992	721526	722079	5.83E-39	0.9
29992	723421	723651	6.67E-17	0.85
29992	724066	725010	9.15E-60	0.74
29992	725482	725787	2.64E-17	0.86
29992	726141	726688	2.23E-16	0.78
29992	728463	729012	8.52E-70	0.79
29992	729484	729838	3.15E-31	0.96

29992	731298	731596	1.85E-11	0.78
29992	736273	736851	1.61E-36	0.95
29992	771869	772101	1.94E-19	0.73
29992	772486	773028	1.98E-49	0.93
29992	780817	781218	9.45E-28	0.99
29992	799550	799961	1.30E-03	0.85
29992	808422	808696	5.40E-09	0.94
29992	852511	852899	1.88E-34	0.91
29992	853675	853895	2.39E-12	0.8
29992	854460	854970	2.07E-41	0.83
29992	856344	856835	7.39E-38	0.93
29992	872583	872855	1.97E-96	0.94
29992	900738	901014	9.31E-12	0.92
29992	904264	904612	1.47E-26	0.9
29992	1009628	1010486	2.10E-49	0.94
29992	1010433	1011037	1.16E-05	0.77
29992	1027970	1028640	2.34E-38	0.75
29992	1028846	1029161	3.34E-14	0.79
29992	1030988	1031288	8.86E-34	0.76
29992	1035813	1036109	2.94E-92	0.94
29992	1067854	1069485	9.59E-104	0.93
29992	1076823	1077450	1.18E-17	0.72
29992	1079280	1079990	5.52E-40	0.83
29992	1192592	1193495	6.62E-27	0.72
29992	1193739	1194138	5.95E-48	0.93
29992	1195636	1196107	4.71E-27	0.64
29992	1196408	1196929	1.13E-85	0.85
29992	1199682	1199887	4.32E-36	0.92
29992	1217289	1217520	1.92E-15	0.84
29992	1224647	1224890	6.68E-07	0.8
29992	1264327	1264680	4.12E-14	0.7
29992	1338161	1338578	2.44E-18	0.8
29992	1338809	1339016	3.25E-36	0.88
29993	19475	20161	1.52E-67	0.83
29993	20968	21203	8.40E-85	0.93
29993	22431	22890	3.38E-28	0.86
29993	23549	23984	1.15E-40	0.87
29993	24569	25075	1.26E-15	0.61
29993	25606	26278	1.77E-57	0.94
29993	29030	29706	1.07E-21	0.91
29993	51925	52290	1.68E-08	1
29993	61072	61309	1.00E-18	0.95
29993	88630	88919	2.88E-13	0.79
29993	92483	92809	8.87E-27	0.81
29993	95757	96171	1.13E-19	0.89
29993	127450	128267	9.74E-65	0.81
29993	128558	129343	3.95E-57	0.86
29993	130589	131180	1.67E-28	0.76
29993	149969	150839	1.11E-86	0.83
29993	159154	159629	1.83E-15	0.8
29993	171288	171554	1.92E-10	0.87
29993	184614	185123	3.51E-39	0.92
29993	237977	238259	7.35E-18	0.89

29993	304139	304836	1.59E-51	0.93
29993	305103	305374	8.91E-27	0.94
29993	306082	307033	1.45E-29	0.82
29993	321056	321437	3.93E-38	0.9
29993	339044	339557	3.62E-15	0.81
29993	350130	350374	3.69E-15	0.93
29993	464246	464650	9.74E-44	0.89
29993	464861	465233	2.30E-14	0.93
29993	480170	481106	3.14E-36	0.78
29993	498578	499012	9.61E-11	0.84
29993	511912	512269	1.77E-09	0.94
29993	536908	537225	2.83E-09	0.77
29993	548768	549331	1.71E-08	0.65
29993	555715	556678	1.06E-32	0.77
29993	556994	557359	2.39E-06	0.83
29993	563446	563774	6.08E-75	0.88
29993	564765	565466	8.66E-50	0.89
29993	577913	578697	9.14E-35	0.8
29993	581565	582501	1.38E-41	0.86
29993	583365	583953	2.37E-32	0.87
29993	587374	587725	4.46E-21	0.87
29993	644573	644968	8.48E-53	0.7
29993	652746	653210	5.79E-55	0.92
29993	653438	653734	7.18E-09	0.85
29993	654902	655968	1.32E-56	0.95
29993	682230	682667	9.62E-25	0.69
29993	683241	683801	7.85E-37	0.8
29993	695241	695736	6.45E-56	0.95
29993	697191	697470	3.79E-51	0.95
29993	699326	701029	2.84E-203	0.93
29993	707255	707582	2.67E-10	0.8
29993	712602	713174	8.43E-48	0.78
29993	713776	714134	5.08E-22	0.85
29993	714588	715136	1.56E-31	0.84
29993	718124	718861	7.99E-26	0.9
29993	721598	722478	9.99E-30	0.62
29993	726796	727440	8.81E-65	0.95
29993	735470	736008	5.25E-15	0.82
29993	754290	755851	5.08E-130	0.88
29993	759697	760367	2.63E-50	0.95
29993	760688	761043	1.47E-34	0.97
29993	762034	763225	6.27E-74	0.76
29993	769500	769963	1.16E-22	0.79
29993	775049	775743	4.28E-14	0.75
29993	784008	784869	1.18E-24	0.82
29994	25745	26821	6.96E-38	0.77
29994	54324	54894	1.43E-16	0.67
29994	59597	60019	7.48E-37	0.76
29994	61547	61766	3.15E-31	0.89
29994	110418	110760	1.59E-29	0.79
29994	111254	111555	4.87E-22	0.81
29994	116304	116826	4.71E-28	0.86
29994	117537	118000	7.75E-65	0.92

29994	118950	119757	7.52E-23	0.61
29994	129999	130217	2.51E-06	1
29994	150115	150741	1.41E-23	0.89
29994	151110	151519	1.62E-14	0.83
29994	154794	155188	9.71E-28	0.92
29994	158882	159110	7.34E-20	0.91
29994	160164	160608	5.27E-25	0.85
29994	178237	178489	3.88E-10	0.8
29994	178485	179342	1.68E-60	0.94
29994	198452	198794	3.87E-11	0.84
29994	217798	218351	5.92E-14	0.63
29994	219611	220357	8.78E-72	0.81
29994	244445	244830	4.56E-24	0.78
29994	248787	249722	7.59E-36	0.7
29994	250994	251387	2.26E-18	0.78
29994	252582	252996	1.19E-11	0.78
29994	252641	253015	2.18E-11	0.8
29994	257318	258130	1.09E-57	0.8
29996	14314	14769	6.22E-11	0.73
29996	31035	31687	5.89E-18	0.67
29996	54670	54931	1.52E-13	0.78
29996	59110	59431	5.86E-23	0.7
29996	59647	59916	1.14E-18	0.76
29996	61471	62214	4.44E-25	0.72
29997	8092	8334	1.43E-05	0.88
29997	47594	47825	5.29E-07	0.88
29997	86417	86846	1.43E-04	0.83
29997	200692	200956	2.08E-06	0.87
29997	210217	210627	7.35E-17	0.9
29997	218090	218380	4.34E-25	0.94
29997	229574	229993	9.28E-08	0.8
29997	238701	239189	4.63E-16	0.83
29997	279751	280194	8.43E-07	0.92
29997	281856	282232	1.09E-07	0.78
29997	315956	316620	5.75E-06	0.97
29997	335112	335459	1.37E-05	0.82
29997	357868	358462	1.42E-13	0.8
29997	433947	434534	8.15E-61	0.93
29997	465069	465770	6.51E-08	0.72
29997	468975	469363	3.24E-08	0.79
29997	496191	496422	1.88E-15	0.96
29997	519221	519481	1.09E-07	0.87
29997	560750	561186	4.03E-05	0.85
29997	613279	613627	1.70E-05	0.77
29997	614724	615425	2.74E-09	0.92
29997	627270	627626	4.08E-06	1
29997	662074	662302	3.71E-12	0.92
29997	674236	674583	1.95E-02	0.81
29997	684784	685148	3.58E-09	0.92
29997	687583	687938	1.78E-06	0.86
29997	712600	712838	8.57E-21	0.92
29998	17101	17544	1.79E-05	0.83
29998	46579	47016	4.14E-05	0.86

29999	59464	60055	1.55E-22	0.8
29999	67353	68404	1.27E-64	0.92
29999	79822	80512	1.90E-63	0.92
29999	113281	113887	4.88E-16	0.77
29999	146775	147111	7.12E-28	0.67
29999	148596	149406	4.33E-39	0.92
30000	5940	6251	1.71E-13	0.85
30000	7998	8845	2.40E-117	0.77
30000	11038	11464	1.93E-28	0.87
30000	12211	12699	2.24E-16	0.86
30000	15231	15726	2.83E-34	0.82
30000	22263	22834	3.85E-13	0.67
30000	24386	25069	5.53E-27	0.89
30000	33054	33383	1.61E-15	0.71
30000	38022	39157	5.53E-44	0.87
30000	51279	51802	1.23E-37	0.67
30000	55387	55941	7.94E-31	0.88
30000	56936	57818	1.96E-60	0.92
30000	58121	59371	1.06E-41	0.83
30000	60426	60745	1.50E-14	0.81
30000	111728	112105	6.26E-55	0.92
30000	115198	115528	1.33E-25	0.62
30000	121417	121880	6.84E-49	0.92
30000	129438	129888	3.44E-37	0.97
30000	131054	131707	1.72E-24	0.91
30000	170823	171400	4.86E-35	0.81
30000	172586	172987	2.31E-19	0.71
30000	190594	191062	1.14E-13	0.86
30001	2275	2766	4.27E-59	0.96
30001	3170	3460	8.16E-27	0.91
30001	3790	4401	5.08E-106	0.9
30001	5586	6089	3.53E-59	0.96
30001	6319	6716	9.65E-12	0.71
30002	1127	1435	1.94E-07	0.94
30002	46622	46850	2.41E-03	0.81
30002	52728	52941	2.16E-07	0.93
30002	53545	53756	9.41E-10	0.89
30002	71379	71689	6.89E-05	0.78
30003	21024	21834	1.09E-56	0.67
30003	56327	57818	1.32E-63	0.68
30003	66771	67154	1.17E-08	0.73
30003	73254	73678	1.13E-15	0.73
30003	73979	74200	3.77E-44	0.95
30003	78002	78595	2.35E-09	0.69
30003	140233	140575	3.28E-09	0.87
30003	143298	144223	9.80E-95	0.71
30003	160314	161246	1.05E-71	0.93
30003	166462	167078	2.99E-47	0.93
30004	9810	10036	1.47E-05	0.92
30004	31856	32227	9.79E-13	0.84
30004	150723	150977	2.23E-26	0.91
30004	256214	256751	1.50E-14	0.78
30004	256367	256920	3.01E-12	0.76

30004	293591	294102	2.13E-18	0.93
30004	321437	321896	1.42E-10	0.72
30004	526068	526382	1.41E-30	0.81
30004	533088	533527	1.80E-17	0.68
30004	625662	625934	4.14E-04	0.94
30004	636353	636704	2.87E-25	0.94
30004	698899	699153	1.21E-34	0.83
30004	757483	758560	1.85E-63	0.9
30004	758996	759361	8.74E-38	0.97
30004	759887	760119	4.94E-26	0.92
30005	12889	13451	8.29E-18	0.76
30005	30820	31620	1.12E-57	0.86
30005	44281	44562	4.24E-14	0.75
30005	45280	46460	1.04E-49	0.89
30005	48163	49347	1.86E-87	0.62
30005	57735	58157	1.46E-11	0.61
30005	62798	64632	3.24E-102	0.87
30005	86823	87681	3.79E-26	0.79
30005	89581	90700	4.73E-53	0.85
30005	99675	100711	1.77E-43	0.76
30005	113280	113523	6.48E-40	0.95
30005	120290	121261	1.57E-23	0.6
30005	127859	128267	8.98E-21	0.86
30005	129593	132393	1.41E-120	0.84
30005	133032	133558	2.01E-40	0.61
30005	147590	147826	1.16E-26	0.8
30005	160498	161203	2.72E-29	0.71
30005	161612	162002	1.62E-21	0.8
30005	162353	163532	2.63E-89	0.78
30005	163742	165604	9.23E-144	0.76
30005	166354	167469	2.75E-62	0.69
30005	184435	185763	2.06E-27	0.78
30005	188736	189139	3.69E-24	0.83
30005	293090	293453	3.19E-13	0.74
30005	296109	297030	2.33E-71	0.81
30005	301939	302517	2.49E-53	0.85
30005	305758	306707	2.94E-109	0.74
30005	311676	312385	6.46E-21	0.79
30005	314297	314718	2.81E-20	0.78
30005	315010	315705	2.56E-37	0.79
30005	320882	321123	3.57E-07	0.71
30005	321351	321790	3.40E-21	0.6
30005	327627	328420	5.11E-42	0.68
30005	362214	362969	1.45E-83	0.88
30005	363385	363754	2.84E-39	0.97
30005	375007	375607	9.74E-53	0.91
30005	400617	401402	7.32E-22	0.82
30005	412777	413132	7.77E-22	0.85
30005	413621	414038	2.59E-16	0.77
30005	443866	444216	9.41E-07	1
30005	451704	452526	4.56E-34	0.83
30005	460341	460772	3.79E-31	0.69
30005	470022	470226	1.68E-15	0.78

30005	478878	479196	1.53E-08	0.63
30006	12340	12624	1.24E-12	0.75
30006	25414	25945	1.76E-18	0.88
30006	27579	28270	1.43E-24	0.77
30006	33363	33926	1.39E-45	0.92
30006	34937	35171	9.11E-20	0.94
30006	35731	36128	5.97E-44	0.9
30006	54199	54492	2.67E-26	0.94
30006	64024	66082	1.06E-78	0.76
30006	66326	66811	4.99E-43	0.87
30006	67200	67605	6.36E-74	0.87
30006	89494	89880	1.45E-09	0.77
30006	105661	106139	8.67E-53	0.88
30006	106435	107040	3.46E-17	0.8
30006	113544	114180	2.36E-21	0.85
30006	165971	166769	8.65E-30	0.84
30006	167915	168575	1.27E-39	0.89
30006	169025	169592	1.44E-61	0.96
30006	177842	178235	4.53E-31	0.96
30006	187915	188828	4.22E-49	0.91
30006	189099	189369	1.68E-26	0.88
30006	190352	191825	1.04E-62	0.79
30006	199245	199622	4.49E-16	0.61
30007	7817	8090	2.39E-04	0.87
30007	70277	70678	2.41E-06	0.8
30007	73052	73380	2.51E-07	0.84
30008	2802	3439	2.96E-24	0.73
30008	6027	6298	1.09E-24	0.93
30008	28107	28386	1.68E-34	0.94
30008	33141	33868	1.94E-45	0.85
30008	42522	43190	2.04E-19	0.8
30008	43391	43695	8.09E-19	0.87
30008	60532	60840	6.63E-15	0.82
30008	62321	62739	5.23E-29	0.83
30008	90719	91788	1.93E-69	0.88
30008	92222	93005	7.77E-104	0.89
30008	93457	94761	1.52E-58	0.77
30008	123214	123930	1.85E-30	0.73
30008	129451	129957	7.40E-17	0.71
30008	130575	130836	6.05E-16	0.83
30008	130900	131264	1.34E-12	0.81
30008	155998	156348	5.85E-15	0.8
30008	178906	179930	1.11E-29	0.71
30008	182519	183187	1.56E-33	0.73
30008	196580	196802	1.43E-10	0.83
30008	197399	197639	1.01E-11	0.75
30009	42162	42375	5.00E-07	0.92
30009	49222	49422	2.19E-08	0.85
30009	69440	69702	4.56E-08	0.8
30009	90066	90332	1.91E-10	0.92
30009	107428	107654	2.09E-08	0.82
30009	114562	114815	1.21E-04	0.79
30009	121704	121918	1.13E-05	0.86

30009	170582	171092	5.84E-13	0.91
30009	182451	182671	1.19E-10	0.89
30009	245481	245768	1.77E-15	0.83
30009	246673	246904	2.50E-10	0.64
30009	310044	310334	2.03E-22	0.81
30009	313070	313416	5.20E-32	0.93
30009	402150	403152	6.33E-91	0.98
30009	403810	404102	1.16E-39	0.93
30009	452925	453408	8.32E-28	0.86
30009	492354	492698	6.56E-12	0.96
30009	498221	499703	7.70E-97	0.89
30009	500573	501062	4.30E-31	0.86
30009	510170	510662	2.92E-15	0.77
30009	527501	527813	2.57E-09	0.79
30009	529365	530091	2.03E-38	0.85
30009	593347	594419	2.02E-29	0.66
30009	597734	598456	8.67E-48	0.88
30009	604850	605092	1.65E-23	0.87
30009	605939	606571	1.88E-52	0.91
30009	663900	664241	4.28E-07	0.98
30009	719184	719416	8.96E-07	0.81
30009	774344	775318	7.17E-50	0.91
30009	775549	775814	1.37E-32	0.95
30009	776074	776341	4.47E-35	0.87
30009	791699	792547	1.91E-38	0.62
30009	800952	801293	4.78E-08	0.85
30009	802468	802766	6.59E-31	0.89
30009	845849	846217	3.20E-28	0.95
30009	885654	886090	1.20E-50	0.95
30009	895300	895977	2.35E-44	0.86
30009	896741	897740	4.12E-61	0.85
30009	897995	898549	2.90E-82	0.92
30009	900325	900749	9.96E-40	0.61
30010	11386	11693	1.78E-04	0.94
30010	25682	26635	4.23E-97	0.9
30010	79296	79748	2.14E-16	0.95
30010	81257	81999	6.47E-102	0.95
30010	82716	82982	2.03E-19	0.93
30010	91960	92502	1.53E-07	1
30010	107287	107578	1.70E-25	0.73
30010	118065	118431	6.05E-24	0.93
30010	146833	147166	2.30E-11	0.79
30010	148044	148361	7.83E-48	0.88
30010	162665	162941	2.18E-25	0.86
30010	167230	168758	5.68E-136	0.79
30010	169583	170854	7.10E-60	0.89
30010	171416	172232	3.86E-53	0.83
30010	199795	200099	1.64E-17	0.86
30010	204362	204616	2.40E-05	0.74
30010	244219	245043	9.75E-57	0.89
30010	288601	289693	9.47E-39	0.9
30010	290058	290377	2.37E-21	0.96
30010	299541	299816	4.42E-12	0.77

30010	302147	303124	8.76E-40	0.82
30010	315621	316297	2.65E-25	0.93
30010	318778	319030	2.19E-43	0.93
30010	319256	319822	8.79E-28	0.77
30010	336402	337912	2.16E-39	0.72
30010	342282	342861	5.19E-46	0.94
30010	372458	374187	8.58E-100	0.85
30010	380006	380563	2.01E-17	0.75
30010	399126	399448	1.28E-14	0.87
30010	404986	405568	2.01E-20	0.85
30010	406924	407520	2.94E-27	0.67
30010	408478	408952	1.77E-76	0.98
30010	409156	409630	5.54E-84	0.95
30010	443792	444002	5.89E-35	0.95
30010	446319	447228	1.55E-102	0.98
30010	451372	451738	4.97E-08	0.73
30010	453353	453635	5.54E-31	0.87
30010	462322	462900	2.77E-18	0.83
30010	476067	476741	4.74E-42	0.9
30011	39023	39310	2.37E-06	0.71
30012	7299	7614	1.97E-17	0.78
30012	8140	8603	9.05E-49	0.9
30012	8908	10005	7.90E-93	0.91
30012	10255	10485	1.82E-24	0.82
30012	24120	24739	2.23E-07	0.94
30014	2029	2923	6.21E-31	0.87
30014	6139	6758	2.36E-50	0.96
30014	95539	95979	7.70E-09	0.8
30014	157968	158432	1.19E-11	0.61
30014	184689	184919	1.76E-05	0.79
30014	250036	250605	1.21E-13	0.62
30015	34018	35162	8.73E-61	0.92
30015	35650	36825	1.00E-68	0.65
30015	37919	38371	1.19E-50	0.87
30015	64033	66319	3.29E-118	0.72
30015	74423	74824	1.37E-06	0.7
30017	34801	35067	1.43E-08	0.88
30017	191250	191513	1.05E-08	0.93
30017	197530	197755	2.59E-07	0.81
30017	293843	294251	1.20E-06	0.96
30017	351841	352319	1.95E-06	0.96
30017	363541	363849	9.15E-35	0.98
30017	366476	367979	2.40E-62	0.93
30017	556653	556977	3.38E-13	0.87
30018	90814	91138	2.69E-04	0.75
30018	92926	93159	2.77E-04	0.82
30018	194194	194400	2.60E-05	0.76
30018	196094	196506	2.35E-07	0.78
30018	196824	197584	6.90E-07	0.85
30018	237181	237497	1.04E-25	0.97
30018	259340	260043	2.44E-29	0.78
30018	298588	299056	1.34E-29	0.82
30018	301900	302513	8.31E-18	0.82

30018	301971	302524	1.56E-17	0.81
30018	309154	309592	7.65E-20	0.8
30018	321524	321918	1.64E-31	0.91
30018	323245	323720	1.00E-23	0.94
30018	331102	332070	1.58E-63	0.96
30018	334131	334463	1.50E-23	0.94
30018	344381	344809	1.58E-42	0.94
30018	346666	346976	2.51E-49	0.93
30018	357748	358169	1.22E-25	0.95
30018	361639	362247	1.94E-34	0.9
30018	370018	370603	6.25E-18	0.82
30018	425316	425579	1.15E-11	0.66
30018	446652	446927	5.44E-06	0.85
30018	466661	467041	1.82E-18	0.88
30018	475527	475835	1.03E-24	0.75
30018	510077	510619	7.57E-21	0.93
30018	521298	521760	1.65E-24	0.89
30018	523410	523822	3.93E-29	0.93
30018	524977	525367	4.54E-15	0.73
30018	525847	526231	1.55E-13	0.81
30018	531485	532322	5.32E-47	0.9
30018	532546	533210	1.42E-28	0.85
30018	533470	534945	8.31E-99	0.92
30018	585810	586476	9.28E-32	0.94
30018	586751	587599	1.31E-34	0.94
30018	587803	588205	1.09E-38	0.83
30018	588642	589209	2.31E-28	0.87
30018	591578	591912	3.25E-34	0.96
30020	20657	21425	3.59E-48	0.82
30020	21710	22501	1.08E-44	0.89
30020	22745	22965	1.31E-21	0.99
30020	30901	31274	6.72E-33	0.86
30020	41429	42724	9.62E-29	0.69
30020	43022	43253	1.12E-18	0.81
30020	55342	55801	1.11E-13	0.79
30020	64119	64668	6.60E-48	0.92
30020	64993	65546	6.25E-37	0.9
30020	70380	71582	6.44E-42	0.64
30020	71890	72364	2.85E-10	0.79
30020	74297	75963	3.05E-106	0.88
30020	93359	93934	1.00E-47	0.93
30020	94316	94670	5.35E-63	0.88
30020	97446	98047	1.14E-20	0.91
30020	107084	108388	4.30E-52	0.73
30020	108692	108953	2.99E-29	0.92
30021	14136	14703	2.18E-07	0.85
30021	24902	25119	2.42E-28	0.96
30021	35561	35839	1.68E-07	0.77
30021	39306	39757	6.06E-30	0.85
30021	40621	40990	2.36E-31	0.88
30022	16216	16434	4.28E-11	0.99
30022	45889	46222	4.05E-24	0.83
30022	103290	103606	2.14E-11	0.93

30022	178046	178368	2.55E-54	0.94
30022	250345	250665	1.60E-12	0.84
30022	253772	254009	1.07E-10	0.93
30022	302139	302480	6.63E-27	0.94
30022	320333	321000	2.65E-70	0.94
30022	428758	429081	5.59E-10	0.85
30022	464370	464642	3.83E-09	0.87
30022	472416	472672	3.71E-04	0.85
30023	25358	25672	1.68E-05	0.85
30023	29871	30525	6.03E-12	0.91
30023	31036	31340	9.88E-10	0.94
30023	31887	32500	7.75E-14	0.89
30023	70781	71430	2.17E-07	0.95
30023	82098	82310	2.07E-06	0.81
30023	97370	97763	5.44E-10	0.98
30024	44414	45129	1.99E-58	0.61
30024	83575	83914	1.63E-22	0.94
30024	108708	109676	7.21E-47	0.89
30024	110244	110496	1.75E-14	0.84
30024	111544	111987	2.24E-42	0.95
30024	112856	113258	3.25E-71	0.94
30024	116403	116758	4.32E-163	0.93
30024	179394	179976	4.41E-27	0.84
30024	180880	181092	6.60E-10	0.81
30024	181424	182171	2.48E-54	0.87
30024	186967	187471	2.61E-12	0.81
30024	187961	188384	1.29E-22	0.92
30024	189703	190255	9.48E-35	0.79
30024	195978	196998	2.62E-39	0.86
30024	197305	198149	1.53E-60	0.96
30024	202320	202753	1.11E-05	0.76
30024	236409	236636	7.14E-05	0.87
30024	332698	333290	1.05E-35	0.9
30024	336882	337419	2.79E-33	0.86
30024	371667	372169	1.00E-58	0.97
30024	372742	373563	3.22E-23	0.97
30024	374424	374904	2.73E-12	0.74
30024	407100	407707	7.83E-09	0.92
30024	418115	418338	5.31E-08	0.82
30024	438706	439155	3.64E-24	0.86
30024	440120	441490	2.31E-59	0.62
30024	442056	442581	6.99E-13	0.76
30024	447272	448022	1.08E-21	0.8
30024	452518	452930	1.18E-46	0.96
30024	477569	478253	4.30E-23	0.83
30024	502461	502986	1.61E-20	0.68
30024	533303	534057	2.02E-15	0.81
30024	547956	548550	1.41E-18	0.89
30024	583865	584397	7.22E-25	0.85
30024	586770	587011	4.60E-72	0.98
30024	604004	604490	7.59E-11	0.95
30024	614696	614944	6.27E-05	1
30024	673620	674321	4.72E-27	0.89

30024	675193	675564	4.16E-25	0.93
30024	695177	695785	4.23E-06	0.78
30024	703673	704009	3.16E-11	0.91
30024	710026	710599	2.71E-24	0.83
30024	713923	714601	5.33E-20	0.9
30024	726893	727503	2.82E-46	0.96
30024	744242	744673	4.45E-50	0.9
30024	746818	747457	1.21E-39	0.9
30024	753733	754463	3.61E-40	0.93
30024	768377	768612	1.99E-31	0.84
30024	777136	777424	4.53E-10	0.88
30024	777593	778041	3.85E-10	0.84
30024	779704	781266	1.27E-85	0.93
30024	788891	789248	4.47E-23	0.97
30024	871589	872378	6.78E-26	0.68
30024	872882	873108	9.17E-43	0.75
30024	877399	877663	9.86E-23	0.92
30024	878039	878637	1.15E-126	0.94
30024	880258	880589	1.07E-28	0.9
30024	890198	890454	6.86E-27	1
30024	942645	943249	1.21E-07	0.86
30024	966388	967174	5.97E-30	0.85
30024	1026489	1027077	2.08E-30	0.96
30024	1076908	1077334	7.05E-25	0.74
30024	1077619	1078197	7.65E-35	0.84
30024	1079000	1080451	1.54E-69	0.86
30024	1082334	1082630	1.29E-33	0.95
30024	1089165	1089599	2.60E-40	0.76
30024	1090331	1090648	8.64E-26	0.87
30024	1124549	1124768	1.85E-09	0.83
30024	1138464	1139183	1.02E-13	0.69
30024	1148129	1149561	2.26E-53	0.62
30024	1167028	1167564	6.17E-21	0.85
30024	1169677	1170105	8.82E-28	0.91
30024	1209248	1210040	4.43E-27	0.91
30024	1214038	1214633	1.37E-52	0.95
30024	1222715	1223056	3.27E-16	0.88
30024	1228065	1228573	1.06E-15	0.74
30024	1236283	1236656	1.02E-16	0.63
30024	1273528	1273747	1.07E-11	0.83
30024	1290805	1291025	2.61E-33	0.8
30025	9165	9490	2.26E-12	0.91
30025	100120	100570	8.98E-08	0.72
30025	117152	117487	8.55E-20	0.79
30025	143084	143571	6.14E-12	0.79
30025	154708	155128	3.42E-41	0.94
30025	210517	210783	1.86E-07	0.88
30025	284509	285460	2.62E-40	0.72
30025	291714	291979	2.47E-29	0.72
30026	17316	17595	7.74E-28	0.9
30026	21179	21419	2.07E-17	0.8
30026	21868	22079	5.65E-08	0.67
30026	58333	58697	2.26E-10	0.8

30026	69444	69820	3.80E-25	0.84
30026	72414	72879	5.63E-16	0.75
30026	73548	74346	2.88E-29	0.79
30026	77214	77533	1.01E-14	0.86
30026	81198	81548	1.01E-09	0.8
30026	81639	81896	4.01E-21	0.79
30026	103949	105515	3.58E-91	0.71
30026	140445	141077	7.37E-11	0.78
30026	185106	185575	1.72E-12	0.88
30026	187816	188205	2.29E-28	0.83
30026	191162	191391	1.52E-31	0.77
30026	192102	192622	1.53E-74	0.85
30026	201813	202434	2.09E-41	0.81
30026	203101	204049	1.78E-30	0.68
30026	229232	230338	1.45E-126	0.62
30026	230663	231280	7.92E-52	0.85
30026	231524	231771	1.97E-29	0.82
30026	256487	257345	1.67E-42	0.88
30026	273989	275187	4.61E-67	0.74
30026	277684	278761	2.24E-34	0.83
30026	297236	299222	3.01E-148	0.87
30026	300853	301871	2.71E-63	0.67
30026	310894	311360	1.60E-04	0.94
30026	404951	405192	1.32E-10	0.8
30026	419968	420437	3.97E-17	0.83
30026	434318	434714	1.46E-20	0.83
30026	435643	436984	1.21E-91	0.9
30026	437269	437708	3.94E-70	0.97
30026	437948	438699	3.79E-33	0.68
30026	482717	483154	4.61E-16	0.87
30026	491395	491935	2.14E-27	0.91
30026	492172	492402	3.79E-27	0.86
30026	508560	509506	2.05E-29	0.91
30026	571417	571823	1.26E-15	0.81
30026	591194	591494	2.76E-04	0.93
30026	617007	618611	1.36E-79	0.76
30026	618954	619240	3.02E-61	0.91
30026	621543	622766	4.43E-48	0.77
30026	623332	623819	1.13E-28	0.69
30027	18390	19926	2.17E-90	0.83
30027	20132	21411	7.48E-75	0.86
30027	23612	24508	6.80E-134	0.92
30027	26850	27541	3.10E-48	0.94
30027	69535	69779	2.71E-13	0.85
30027	76156	76459	2.79E-17	0.92
30027	96008	96662	9.02E-38	0.9
30027	101758	102957	5.72E-39	0.83
30027	106357	106858	7.40E-17	0.79
30027	112705	113089	3.99E-10	0.85
30027	121883	122186	5.08E-33	0.92
30027	122437	122897	5.36E-32	0.96
30027	123256	123834	6.95E-32	0.92
30027	129359	129640	1.35E-26	0.99

30027	137025	137429	4.19E-46	0.93
30027	167345	167619	1.00E-12	0.69
30027	186002	186744	1.85E-30	0.77
30027	190758	191373	1.33E-57	0.72
30027	194641	195440	1.47E-35	0.69
30027	198468	199206	4.25E-22	0.65
30027	225209	225567	3.34E-11	0.84
30027	226975	227367	6.60E-22	1
30027	238239	238664	1.31E-14	0.84
30027	253353	253811	7.80E-29	0.7
30027	290190	290466	6.04E-10	0.85
30027	305995	307247	1.74E-45	0.77
30027	308767	309084	8.80E-28	0.83
30027	324205	324465	2.13E-16	0.82
30027	330832	331154	1.28E-16	0.82
30027	332929	333336	1.37E-28	0.94
30027	337945	338241	7.61E-23	0.8
30027	366902	367301	6.29E-20	0.88
30027	374624	375830	2.70E-53	0.86
30027	397379	398288	3.26E-25	0.67
30028	7854	8337	5.33E-44	0.85
30028	12401	13371	1.48E-41	0.64
30028	19154	19398	8.36E-34	0.97
30028	88961	89537	3.88E-30	0.91
30028	90579	90915	1.01E-30	0.96
30028	111283	111996	8.56E-59	0.87
30028	112449	113222	3.94E-86	0.85
30028	115081	116960	5.17E-119	0.77
30028	146478	147070	3.17E-16	0.73
30028	147388	147796	5.48E-28	0.79
30030	43707	43960	1.17E-05	0.8
30032	28996	29801	1.99E-37	0.84
30032	63969	65045	7.13E-67	0.87
30032	65345	65789	4.60E-30	0.79
30032	71705	72755	6.52E-39	0.81
30032	78165	78593	1.61E-18	0.85
30032	79454	79980	1.73E-40	0.78
30032	133457	133864	3.42E-24	0.91
30032	142690	144711	5.01E-69	0.82
30032	148992	149957	5.07E-20	0.66
30033	42494	42857	9.04E-12	0.84
30033	55018	55311	4.93E-11	0.89
30033	59929	60235	7.83E-19	0.91
30033	66338	66715	4.16E-47	0.92
30033	147796	148067	8.35E-09	0.92
30033	150370	150584	4.02E-05	0.86
30033	164292	164693	4.94E-07	0.93
30033	179571	179968	5.26E-10	0.85
30033	185154	185418	3.38E-06	0.9
30033	188232	188469	3.43E-19	0.87
30033	195600	195943	1.08E-21	0.97
30033	196801	197489	1.45E-60	0.95
30033	197730	198235	5.36E-29	0.97

30033	241629	241969	1.42E-21	0.92
30033	244428	244796	1.04E-25	0.94
30033	280198	281044	5.04E-10	0.92
30033	355693	355905	1.28E-10	0.98
30033	448248	448937	3.15E-05	0.7
30033	471687	472409	1.17E-09	0.96
30033	635186	635554	1.73E-10	0.98
30033	660462	660757	1.84E-03	0.86
30033	676094	676502	5.00E-16	0.97
30033	696327	697032	2.35E-04	0.84
30033	734460	734868	6.69E-09	0.93
30033	739133	739712	4.90E-10	0.95
30033	765515	765752	4.23E-07	0.9
30033	768703	770570	1.68E-69	0.8
30034	12178	12386	2.56E-08	0.97
30034	31825	32065	1.70E-09	0.9
30034	69359	69584	1.46E-05	0.9
30034	74357	74842	1.38E-22	0.81
30034	91037	91650	1.43E-11	0.84
30034	91652	92161	9.34E-23	0.81
30034	103760	104113	4.14E-04	1
30034	105566	105955	6.24E-06	0.88
30034	106348	106615	6.14E-12	0.8
30034	107451	107718	2.17E-12	0.79
30034	121770	122058	3.31E-12	0.96
30035	33238	33471	1.28E-07	0.86
30035	48226	48558	4.56E-22	0.76
30035	55360	55783	2.05E-07	0.98
30035	60683	60893	3.26E-17	0.8
30035	83153	83419	7.08E-12	0.85
30035	94550	94759	1.55E-09	0.84
30035	96178	96439	1.74E-04	0.79
30035	109726	110140	2.95E-14	0.86
30035	115248	115506	4.37E-04	0.93
30035	150134	150406	2.28E-04	0.93
30037	205649	205850	3.84E-05	0.96
30037	223224	223854	5.45E-05	0.8
30037	229590	229955	8.23E-22	0.93
30037	239154	239405	4.89E-17	0.88
30037	308257	308554	1.05E-09	0.78
30037	322155	322397	5.99E-07	0.94
30037	345054	345370	5.82E-11	0.79
30037	367843	368223	1.33E-19	0.95
30039	18142	18994	2.23E-29	0.68
30039	33231	33686	4.03E-14	0.65
30039	34609	34897	3.38E-13	0.76
30039	70543	70901	8.51E-16	0.8
30039	73725	74025	3.10E-10	0.6
30039	74521	75050	9.97E-63	0.8
30039	75406	78330	2.92E-140	0.77
30040	34370	35518	9.79E-75	0.64
30040	44121	45059	2.13E-30	0.85
30040	49628	50441	6.29E-38	0.62

30040	52717	53550	1.10E-64	0.86
30040	59443	60602	1.25E-40	0.66
30040	61110	61664	1.13E-39	0.86
30040	83684	84994	2.60E-67	0.81
30040	95180	95441	4.03E-12	0.82
30040	95784	97268	1.42E-45	0.8
30040	112108	113070	5.87E-59	0.91
30040	179176	179670	2.02E-61	0.93
30040	180452	181012	2.26E-19	0.93
30040	198042	199643	7.47E-95	0.89
30041	17601	18068	5.20E-47	0.89
30041	18640	18894	6.68E-30	0.9
30041	20472	21139	3.13E-30	0.71
30041	21376	21820	2.27E-38	0.94
30041	22508	23408	2.00E-36	0.82
30041	33429	33854	2.28E-22	0.79
30041	63579	64059	4.61E-20	0.68
30041	97296	97499	3.58E-22	0.92
30041	103605	103920	4.39E-09	0.8
30041	117351	117725	3.44E-32	0.82
30041	118575	119754	2.04E-46	0.83
30041	154159	154590	2.07E-22	0.94
30041	160983	161232	6.77E-05	1
30041	169080	169782	4.42E-35	0.78
30042	8051	8463	7.29E-16	0.86
30042	26518	26885	1.56E-20	0.72
30042	28324	28614	4.88E-09	0.8
30042	55634	56166	2.67E-22	0.77
30042	56581	56818	8.51E-22	0.63
30042	171431	173672	1.38E-80	0.84
30042	174248	174581	4.85E-24	0.93
30042	175108	175977	2.14E-26	0.62
30042	185657	186695	1.25E-70	0.68
30042	189788	190604	1.09E-61	0.93
30042	195580	195852	2.39E-10	0.72
30042	199144	199609	2.54E-17	0.92
30042	200798	201478	3.35E-60	0.92
30042	204744	205316	3.82E-27	0.88
30042	209147	210415	1.63E-34	0.78
30042	225939	226340	2.08E-08	0.86
30042	234222	234827	5.22E-22	0.95
30042	236365	237049	3.35E-26	0.79
30042	238830	239360	3.21E-78	0.81
30042	239727	240312	9.75E-61	0.91
30043	23255	23518	6.23E-04	0.88
30043	29611	29918	3.51E-06	0.75
30043	31869	32625	2.03E-22	0.85
30043	32936	33269	4.99E-12	0.89
30043	39162	39780	7.63E-21	0.9
30043	44008	44456	6.91E-14	0.85
30043	53398	53740	2.13E-04	0.91
30043	64955	65462	2.42E-10	0.73
30043	98374	98605	4.58E-03	1

30044	6726	6997	3.79E-07	0.89
30044	70630	71296	3.41E-04	0.86
30044	132824	133714	1.14E-34	0.67
30044	135330	135667	5.27E-08	0.73
30044	154139	154511	3.57E-08	0.95
30044	204495	204753	2.26E-12	0.83
30044	293430	293708	1.66E-21	0.95
30044	296533	296857	1.75E-11	0.98
30045	5956	6312	1.63E-19	0.94
30045	45010	45301	4.72E-16	0.96
30045	71240	71562	6.95E-09	0.89
30045	113901	114763	5.17E-40	0.87
30045	140842	142952	1.59E-98	0.91
30045	194779	195557	3.86E-26	0.81
30045	195823	196248	2.81E-33	0.84
30045	201113	202126	5.84E-42	0.83
30045	203979	204548	4.92E-53	0.95
30045	209226	210599	7.36E-80	0.9
30045	211459	211829	9.37E-48	0.95
30045	221106	221858	1.15E-54	0.88
30045	222073	222722	8.50E-26	0.89
30045	224259	224908	1.17E-36	0.93
30045	225114	225528	3.87E-26	0.91
30045	245983	246209	3.47E-04	1
30045	248513	248793	2.32E-21	0.81
30045	251870	252241	3.07E-77	0.94
30045	256666	257069	1.20E-22	0.77
30045	279604	280380	8.86E-28	0.78
30045	282209	282697	1.12E-103	0.98
30045	314407	314701	2.10E-13	0.89
30045	314980	315476	1.57E-32	0.9
30045	344636	345139	2.06E-10	0.88
30045	345154	345823	1.16E-04	0.85
30045	383895	384512	9.75E-26	0.89
30045	387862	388322	4.00E-28	0.89
30045	399132	399618	3.20E-30	0.93
30045	420365	421045	9.63E-20	0.83
30045	426964	427233	7.23E-29	0.97
30045	427442	428320	1.15E-65	0.86
30045	465963	466956	1.18E-75	0.91
30045	468098	468772	8.45E-36	0.9
30045	473647	473902	9.97E-25	0.95
30045	477753	478710	4.60E-39	0.82
30045	489918	490525	2.01E-54	0.93
30045	490914	491479	5.18E-22	0.86
30045	536524	536856	4.58E-10	0.85
30046	19961	20311	8.16E-16	0.94
30046	45059	45474	4.59E-09	0.8
30046	76174	76723	4.09E-29	0.92
30046	77134	77514	2.17E-08	0.95
30046	106403	106837	2.24E-08	0.95
30046	133608	134771	9.42E-46	0.72
30046	135356	135768	2.59E-26	0.89

30046	181885	182749	1.36E-92	0.92
30047	367	698	5.51E-08	0.94
30047	6181	6601	2.07E-09	0.9
30047	35841	36137	1.93E-11	0.8
30048	13325	13622	8.92E-09	0.91
30048	60947	61350	4.61E-86	0.97
30048	187350	187638	1.00E-35	0.88
30048	226363	226843	1.01E-52	0.61
30048	232977	233222	5.04E-05	1
30048	235554	235803	7.99E-38	0.94
30048	236050	236465	7.52E-11	0.86
30048	247924	249448	2.86E-127	0.95
30048	268163	268962	6.40E-53	0.84
30049	103862	104359	2.11E-23	0.95
30049	136806	137315	6.37E-14	0.7
30049	140879	141296	6.42E-10	0.79
30049	143110	144249	3.31E-09	0.94
30049	178574	178872	2.21E-11	0.97
30049	228017	228279	5.55E-13	0.91
30049	254949	255657	1.42E-13	0.81
30049	255702	256184	5.87E-07	0.85
30049	268402	268739	1.15E-03	0.8
30049	279413	279665	6.12E-11	0.86
30049	288250	288511	1.30E-24	0.76
30050	1234	1725	3.14E-12	0.98
30050	5169	5688	1.34E-13	0.98
30050	48578	48940	2.11E-06	0.83
30050	49476	50034	2.08E-17	0.87
30050	54469	54801	2.32E-08	0.82
30050	59920	60126	9.53E-04	0.84
30050	191014	191362	1.55E-06	0.96
30051	31084	31681	6.79E-31	0.94
30051	59738	60108	1.79E-08	0.85
30051	67014	67392	9.30E-25	0.95
30051	93242	93777	2.33E-73	0.84
30051	95258	96174	2.71E-43	0.6
30051	214662	215361	1.98E-70	0.92
30051	216155	216387	1.73E-49	0.91
30051	217350	218955	9.71E-62	0.74
30051	229546	230050	1.69E-26	0.92
30051	231434	231824	1.90E-16	0.8
30051	267269	267474	7.79E-27	0.94
30051	312033	312318	2.11E-06	0.83
30051	318840	319212	8.89E-16	0.77
30051	322345	322798	2.70E-80	0.93
30051	324184	324925	4.14E-75	0.95
30051	325413	325762	7.53E-44	0.78
30051	363802	365014	9.35E-51	0.83
30051	369003	369233	2.83E-21	0.83
30051	371785	372083	2.36E-37	0.94
30051	459437	459672	3.40E-05	0.96
30051	468577	469125	8.20E-17	0.82
30051	470883	471876	1.34E-41	0.82

30052	48293	49166	1.03E-11	0.8
30052	53389	54043	1.29E-12	0.95
30052	54946	55634	8.62E-26	0.94
30052	60376	60626	8.18E-13	0.87
30052	65205	65517	6.73E-16	0.87
30052	65882	66209	2.27E-10	0.81
30052	66874	67154	4.00E-13	0.82
30052	110044	110383	2.32E-10	0.8
30052	113164	113390	2.93E-03	0.75
30053	12979	13717	8.71E-13	0.82
30053	14781	15226	1.60E-09	0.71
30053	48630	48968	3.63E-15	0.63
30054	6140	6617	4.71E-29	0.84
30054	7182	7988	8.27E-39	0.76
30054	8221	8951	7.04E-33	0.7
30054	18502	18726	1.16E-24	0.88
30054	32438	32669	2.04E-10	0.78
30054	60812	61105	3.69E-22	0.67
30054	61566	62033	3.53E-30	0.88
30054	63455	63947	2.47E-71	0.79
30054	69120	69409	6.88E-14	0.82
30054	69657	70202	5.31E-09	0.64
30054	76337	77221	4.31E-74	0.8
30054	82022	82886	2.60E-20	0.69
30054	86500	86984	4.46E-15	0.84
30054	94565	95140	1.47E-13	0.73
30054	95370	96139	2.76E-36	0.81
30054	100599	101041	3.53E-42	0.91
30054	103320	104083	9.50E-42	0.87
30054	110131	110966	6.08E-41	0.87
30054	130582	131026	2.98E-42	0.77
30054	131514	131919	1.33E-07	0.77
30054	136839	137872	4.28E-52	0.62
30054	159511	160216	9.88E-45	0.71
30054	160903	162943	4.65E-140	0.76
30054	170860	171477	3.61E-38	0.87
30054	171730	172235	2.22E-22	0.89
30054	174980	176308	7.72E-50	0.7
30054	178596	178818	5.37E-24	0.9
30054	228079	228345	1.23E-23	0.79
30054	296382	296923	3.03E-37	0.91
30055	8012	8493	1.23E-14	0.73
30055	9744	10240	2.66E-22	0.61
30055	12696	12935	4.42E-15	0.68
30055	16735	17367	1.90E-28	0.89
30055	32844	33381	6.36E-24	0.84
30055	34383	34657	7.60E-20	0.85
30055	35013	35395	1.45E-32	0.95
30055	35706	36388	1.68E-34	0.92
30055	37449	38551	6.24E-79	0.8
30055	54263	56330	8.88E-103	0.83
30055	63231	64439	3.68E-45	0.64
30055	101691	102509	1.25E-21	0.72

30055	105287	106178	1.63E-34	0.8
30055	110999	111564	5.96E-62	0.78
30055	119605	120049	8.41E-16	0.79
30055	139642	139973	1.39E-09	0.78
30055	139750	139988	1.38E-11	0.8
30055	156629	156985	7.71E-30	0.86
30055	172134	172702	1.67E-40	0.62
30055	174804	175405	9.49E-31	0.82
30055	175700	176551	2.33E-71	0.86
30055	181831	182303	4.96E-30	0.76
30055	213362	213581	1.84E-14	0.76
30055	253307	255141	5.43E-104	0.88
30055	260081	260608	3.90E-31	0.83
30055	262407	262855	1.91E-52	0.91
30055	272213	272549	5.85E-06	0.73
30055	279552	280102	7.36E-44	0.91
30055	301336	301673	1.36E-30	0.61
30055	311646	312468	1.92E-51	0.69
30055	319318	319846	3.20E-12	0.75
30055	347806	348571	2.10E-60	0.77
30055	353831	354105	2.17E-32	0.92
30055	354882	355109	3.41E-16	0.79
30055	364859	365192	2.93E-37	0.95
30055	373165	373531	5.86E-30	0.69
30055	442191	443665	4.92E-68	0.87
30055	452188	452908	7.10E-100	0.89
30055	487775	488132	1.43E-29	0.88
30055	488362	489212	1.20E-61	0.91
30055	492746	492989	2.03E-19	0.71
30055	493749	494603	4.96E-61	0.72
30055	529600	529841	2.18E-19	0.82
30056	4747	4997	1.57E-04	0.85
30056	20420	21156	5.14E-16	0.62
30056	43381	44443	4.37E-08	0.84
30056	57252	57527	6.46E-04	0.76
30056	70800	71462	5.62E-06	0.88
30056	148422	148693	9.50E-05	0.81
30056	219547	220074	2.43E-14	0.79
30056	229461	229867	7.22E-21	0.8
30056	240079	240584	8.91E-05	0.75
30056	284240	284536	2.02E-10	0.85
30056	354599	354910	1.56E-04	0.86
30056	372723	373005	8.51E-04	1
30056	381860	382101	7.63E-06	0.84
30056	382362	382684	3.16E-09	0.97
30056	384257	385071	3.29E-06	0.88
30056	404969	405596	2.59E-09	0.81
30056	451821	452183	4.10E-09	0.81
30056	470791	471205	1.66E-07	0.82
30056	483104	483703	3.42E-06	0.82
30056	487930	488252	6.03E-09	1
30056	488202	488558	2.20E-07	1
30056	490555	490820	1.36E-05	0.85

30056	536281	536567	5.63E-16	0.93
30056	557469	557681	8.54E-06	0.97
30056	597269	597517	8.08E-07	0.83
30056	614283	614516	6.48E-06	0.9
30056	617903	618284	3.96E-12	0.81
30056	664603	664827	1.97E-15	0.9
30056	689006	689429	3.48E-08	1
30056	698468	698717	1.32E-14	0.86
30056	704370	704883	1.57E-13	0.66
30056	719074	719275	8.22E-19	0.89
30056	727492	727764	2.57E-05	0.76
30056	755016	755226	1.37E-04	0.95
30056	841325	841568	2.57E-31	0.81
30056	860146	860623	1.64E-10	0.94
30056	890164	890610	1.89E-15	0.86
30056	923622	924196	6.07E-07	0.84
30056	931011	931434	7.93E-07	0.96
30056	978349	978628	6.03E-07	0.88
30056	990192	990658	8.25E-05	0.84
30056	1004476	1004775	2.20E-09	0.85
30056	1010529	1010778	3.67E-04	0.96
30056	1010991	1011328	1.16E-03	0.96
30056	1018933	1019229	5.44E-09	0.9
30056	1063547	1063935	5.61E-10	0.94
30056	1064141	1064635	4.76E-10	0.96
30056	1079316	1079848	1.96E-11	0.85
30056	1080092	1080880	2.03E-42	0.78
30056	1088821	1089307	2.34E-15	0.92
30056	1095628	1096055	6.36E-07	0.97
30056	1103810	1104183	5.85E-26	0.95
30056	1128675	1129114	2.59E-08	0.85
30056	1174398	1175108	3.07E-56	0.93
30056	1228421	1228789	1.02E-05	0.9
30056	1242801	1243128	3.06E-37	0.95
30056	1257453	1258022	5.33E-16	0.88
30056	1258263	1258467	3.05E-16	0.92
30057	1	578	3.85E-13	0.82
30057	18057	18446	2.53E-39	0.9
30058	7646	8257	3.58E-20	0.95
30058	25384	25911	5.25E-26	0.95
30058	56846	57505	4.13E-41	0.89
30058	144467	144936	1.55E-36	0.96
30058	148595	149265	8.40E-31	0.93
30058	171199	171461	4.19E-09	0.77
30059	15282	15602	2.43E-10	0.77
30059	29752	30251	6.85E-16	0.84
30059	35934	36683	3.72E-22	0.76
30059	37716	38287	3.35E-23	0.79
30059	100098	100604	2.44E-11	0.77
30059	151839	152862	5.40E-34	0.83
30060	38	906	2.08E-16	0.81
30060	3933	4476	4.86E-24	0.81
30060	35754	36408	8.60E-47	0.94

30060	45675	45958	7.18E-07	0.79
30060	116791	117939	2.12E-47	0.64
30060	118961	119516	1.89E-25	0.89
30060	119893	120442	2.80E-16	0.83
30060	120063	120513	6.94E-25	0.92
30060	124054	124650	1.11E-25	0.89
30060	125690	126022	5.46E-12	0.79
30060	172109	172462	1.15E-40	0.87
30060	172710	173221	8.51E-48	0.88
30060	179677	180270	6.48E-13	0.76
30060	285433	285699	6.04E-19	0.96
30060	295094	295354	5.91E-16	0.77
30060	317503	318401	1.59E-75	0.94
30060	326455	327079	4.45E-68	0.98
30060	327910	328644	5.43E-34	0.92
30060	334591	334997	4.38E-18	0.98
30060	337097	337440	4.67E-16	0.9
30060	355935	356486	1.37E-27	0.8
30060	359350	359632	5.52E-11	0.86
30060	372894	373237	9.99E-31	0.78
30060	376046	376730	1.65E-18	0.93
30060	414133	414549	6.30E-38	0.89
30060	417532	417897	1.53E-08	0.83
30060	446132	446748	1.55E-48	0.84
30060	460067	460611	2.08E-14	0.96
30060	463088	463701	7.54E-21	0.69
30060	493131	495247	4.04E-150	0.96
30060	495832	496911	8.34E-111	0.96
30060	498091	500046	5.81E-203	0.94
30060	510070	510469	1.94E-25	0.96
30061	28508	28937	4.97E-38	0.95
30061	30480	31279	8.59E-13	0.81
30061	36615	37222	2.20E-32	0.89
30061	43415	43620	4.83E-16	0.82
30061	64149	64783	2.52E-22	0.88
30061	93644	94207	1.41E-18	0.75
30061	101985	103004	2.70E-63	0.82
30061	107845	108157	3.05E-23	0.95
30061	115495	115703	5.17E-17	0.97
30061	118583	118845	1.25E-14	0.92
30061	132726	133232	1.07E-64	0.77
30061	134196	134497	2.56E-12	0.83
30061	134731	135553	7.58E-48	0.88
30061	138751	139223	2.77E-10	0.82
30061	141979	142274	1.29E-04	0.75
30061	151074	151377	1.21E-18	0.87
30061	153390	153758	8.91E-09	0.81
30061	158453	159079	8.25E-27	0.87
30061	161926	162225	1.43E-09	0.65
30061	192448	193177	4.98E-48	0.6
30061	195021	195697	3.38E-13	0.78
30061	211619	211940	1.06E-07	0.96
30061	218089	218338	2.85E-10	0.96

30061	229752	230491	2.07E-44	0.89
30061	270760	271141	1.40E-08	0.78
30061	301351	301734	1.01E-18	0.93
30061	325964	326329	2.13E-24	0.81
30061	333926	334281	3.91E-104	0.94
30062	15066	15415	1.42E-11	0.86
30062	45533	45866	3.63E-06	0.85
30062	80141	80431	8.44E-09	0.89
30062	110420	110697	2.12E-04	0.82
30062	110461	110744	4.61E-04	0.8
30062	155959	156401	3.54E-07	0.9
30062	195764	195974	1.25E-05	0.91
30062	232377	232632	9.64E-06	0.85
30062	232827	233058	4.90E-05	0.77
30062	234644	235124	5.57E-04	0.75
30062	235017	235324	1.59E-04	0.87
30062	241543	241818	2.26E-07	0.79
30062	272013	272457	1.31E-16	0.86
30062	301977	302232	7.33E-07	0.94
30062	308388	309048	1.51E-11	0.88
30062	310607	310874	2.99E-06	0.8
30062	316816	317497	1.55E-14	0.72
30062	324626	324930	1.47E-04	0.94
30062	341962	342214	4.18E-06	0.71
30063	7250	8221	3.73E-51	0.84
30063	8434	8833	1.87E-32	0.9
30063	12826	13271	8.54E-09	0.76
30063	13544	14229	1.32E-28	0.86
30063	66324	67071	1.06E-63	0.88
30063	78426	78843	1.03E-97	0.92
30063	109261	109823	8.59E-66	0.76
30063	125321	125991	8.79E-39	0.9
30063	134407	134729	1.61E-17	0.84
30063	142759	142967	5.37E-07	0.94
30063	156065	156422	1.67E-115	0.95
30063	165987	166380	3.73E-22	0.68
30063	166645	167090	8.31E-12	0.6
30063	167520	167968	2.21E-76	0.94
30063	181611	182125	1.26E-42	0.84
30063	200846	201663	1.41E-36	0.73
30063	202953	203353	5.95E-13	0.83
30063	204284	204846	5.19E-37	0.79
30063	215361	215675	3.35E-20	0.8
30063	217256	217617	4.07E-87	0.87
30063	218004	219562	7.13E-63	0.68
30063	220013	220273	2.15E-25	0.84
30063	220536	222840	3.68E-83	0.84
30063	223859	224127	7.33E-43	0.84
30063	224457	225482	2.39E-55	0.9
30063	226565	227030	3.73E-55	0.95
30063	228525	229429	3.72E-90	0.93
30063	259949	260563	3.61E-24	0.67
30063	262036	263177	2.36E-53	0.92

30063	266331	266831	1.78E-18	0.6
30063	268937	269929	3.03E-136	0.96
30063	270565	270900	7.41E-28	0.91
30063	286275	286585	1.82E-06	0.71
30063	303667	303973	1.07E-17	0.6
30063	346875	347344	1.73E-06	0.89
30063	360654	361056	1.08E-20	0.88
30063	367717	368068	5.12E-17	0.91
30063	371770	372606	2.76E-26	0.89
30063	374647	376215	4.94E-117	0.89
30063	377774	378077	4.37E-35	0.93
30063	391067	391274	6.90E-15	0.89
30063	392029	392572	1.58E-62	0.96
30063	393354	393646	5.60E-27	0.88
30063	405642	406310	5.23E-32	0.81
30063	429943	430468	6.97E-42	0.9
30063	433952	434273	2.10E-82	0.96
30063	476927	477217	4.77E-20	0.8
30063	496113	496329	1.17E-20	0.86
30063	498781	499457	4.70E-30	0.87
30063	499937	500624	6.94E-17	0.72
30063	505722	507019	2.14E-38	0.75
30063	513525	514729	8.70E-58	0.72
30063	518253	518551	2.70E-13	0.86
30063	528693	529277	1.43E-39	0.92
30063	538831	539454	4.43E-62	0.91
30063	539834	540349	5.13E-18	0.86
30063	541034	541753	7.05E-27	0.88
30063	542191	542531	3.67E-23	0.89
30063	568845	569258	2.18E-26	0.96
30063	582541	582889	1.05E-23	0.94
30063	587415	587770	4.01E-64	1
30063	588443	588838	9.35E-18	0.83
30063	589154	589358	3.63E-28	0.87
30063	641329	641887	2.71E-35	0.87
30063	646202	647001	3.00E-48	0.88
30063	648648	649511	5.99E-105	0.92
30063	651401	652006	3.11E-41	0.93
30063	652550	653307	6.17E-41	0.79
30063	654852	655097	6.49E-34	0.95
30063	683937	684272	1.55E-17	0.73
30063	707267	707523	2.50E-12	0.93
30063	893356	893955	8.78E-31	0.95
30063	927377	927876	1.82E-21	0.95
30063	975093	975489	5.96E-30	0.97
30063	984788	985343	1.03E-20	0.95
30063	986914	987204	1.57E-24	0.92
30063	987868	988253	1.70E-16	0.74
30063	992618	993008	8.93E-23	0.91
30064	22482	22921	6.86E-27	0.87
30064	32198	32511	7.96E-22	0.96
30064	36989	39754	8.43E-169	0.8
30064	40671	40946	2.01E-19	0.92

30064	82370	83030	1.56E-25	0.68
30064	93564	94001	3.84E-06	1
30064	161721	162107	5.14E-40	0.91
30064	180152	180509	6.63E-25	0.65
30064	191160	191661	5.93E-46	0.92
30064	191993	192488	4.65E-10	0.69
30065	24923	25169	6.82E-08	0.83
30065	76347	76837	8.44E-19	0.86
30065	87867	88214	3.41E-32	0.86
30065	89927	90222	1.85E-21	0.82
30065	117410	117674	9.12E-10	0.88
30065	118255	118533	8.69E-29	0.97
30065	134957	135968	2.20E-32	0.91
30065	162033	162339	3.34E-04	0.79
30065	176074	176389	1.69E-05	0.82
30065	200084	200532	6.30E-09	0.82
30065	230338	231013	1.66E-34	0.92
30065	241181	241437	4.47E-35	0.9
30065	250395	250843	4.22E-04	0.95
30065	254487	254764	1.67E-05	0.71
30065	294820	295451	3.24E-52	0.93
30065	309200	309649	3.00E-33	0.92
30065	309965	310265	5.86E-41	0.95
30065	311577	311827	3.72E-47	0.96
30065	313392	313784	8.74E-36	0.9
30065	353976	354373	8.74E-07	0.82
30065	395700	397399	6.39E-60	0.8
30065	400376	401359	5.69E-54	0.78
30065	401869	402294	6.36E-48	0.89
30065	402551	403419	6.23E-84	0.93
30065	404161	406892	1.10E-170	0.73
30065	407299	408073	3.47E-57	0.87
30065	413254	413570	1.63E-32	0.85
30065	420303	420573	1.28E-07	0.88
30065	434869	435600	3.52E-25	0.88
30065	445161	445921	9.65E-23	0.97
30065	458535	459013	4.82E-29	0.87
30065	459377	459926	2.94E-21	0.68
30065	460266	460621	1.37E-34	0.88
30065	462000	462961	8.76E-97	0.93
30065	463193	463721	7.44E-39	0.87
30065	469462	470352	2.48E-41	0.94
30065	499535	499999	2.06E-13	0.84
30065	502435	502791	4.59E-30	0.89
30065	503094	503544	3.36E-35	0.98
30065	505169	505612	8.87E-42	0.92
30065	542981	543264	1.90E-08	0.8
30065	543946	544312	1.01E-08	0.88
30065	555002	555326	8.46E-18	0.91
30065	641921	642946	9.39E-120	0.97
30065	831130	831497	1.19E-31	0.9
30065	831717	832169	2.35E-20	0.7
30065	843245	843619	3.92E-12	0.78

30065	845154	846098	1.04E-42	0.79
30065	855030	855461	2.67E-15	0.99
30065	866644	867180	5.65E-21	0.88
30065	867665	868777	1.73E-35	0.68
30065	934467	934701	1.82E-12	0.9
30065	935399	935911	4.11E-35	0.94
30065	968176	968438	3.30E-04	1
30065	1048232	1048441	1.64E-22	0.95
30065	1049340	1049588	5.00E-05	0.82
30065	1052568	1053235	1.72E-29	0.86
30065	1074403	1075151	6.36E-29	0.84
30065	1084805	1085456	1.00E-51	0.96
30065	1087041	1088000	3.80E-63	0.95
30066	72781	73987	6.99E-54	0.85
30066	74537	75213	2.16E-38	0.92
30066	76003	76363	3.16E-18	0.85
30066	81378	81713	1.40E-13	0.65
30066	104631	105002	2.86E-59	0.83
30066	130120	131025	1.53E-37	0.87
30066	131449	131790	3.16E-18	0.81
30066	133180	133407	1.85E-26	0.91
30066	143337	143832	1.14E-38	0.84
30066	151035	151668	3.43E-65	0.87
30066	152211	153384	2.96E-126	0.87
30066	158175	158500	6.86E-22	0.94
30066	177990	178236	2.42E-14	0.87
30066	193888	194134	2.93E-17	0.71
30066	206229	206504	7.75E-22	0.84
30066	219158	219864	1.09E-20	0.88
30066	220128	220830	8.51E-81	0.92
30066	221672	222180	4.97E-71	0.89
30066	242197	242940	1.63E-24	0.87
30066	274517	274937	1.68E-12	0.83
30066	289409	289727	5.45E-19	0.86
30066	323706	324265	1.05E-15	0.71
30067	73006	73476	1.13E-05	0.83
30067	103357	103601	2.02E-26	0.92
30068	39911	40251	3.09E-15	0.8
30068	40472	42108	2.78E-64	0.76
30068	104780	105579	3.60E-52	0.81
30068	113851	114190	4.48E-20	0.86
30068	114442	115215	1.30E-55	0.78
30068	131262	132613	8.02E-79	0.7
30068	143355	143648	7.02E-14	0.79
30068	150081	150749	7.43E-20	0.63
30068	182498	182744	4.58E-30	0.82
30068	205269	205748	1.22E-16	0.76
30068	214376	216100	1.02E-126	0.86
30068	217786	218110	2.74E-16	0.81
30068	236318	237100	3.40E-27	0.69
30068	265868	266734	2.42E-35	0.83
30068	291348	291794	1.67E-50	0.8
30068	292049	293478	4.09E-64	0.74

30068	298415	298849	7.42E-23	0.94
30068	302961	303980	4.53E-49	0.87
30068	310079	310591	1.14E-36	0.89
30068	333541	334728	1.09E-50	0.82
30068	333655	334771	2.48E-47	0.86
30068	339344	340261	3.46E-49	0.7
30068	359639	360059	1.22E-25	0.86
30068	531936	533366	7.34E-54	0.74
30068	549861	550224	2.25E-20	0.81
30068	550441	550652	1.05E-07	0.8
30068	557690	557995	1.94E-25	0.9
30068	562230	563457	4.64E-50	0.61
30068	590819	591393	8.86E-34	0.8
30068	591735	592152	1.27E-31	0.83
30068	667444	667765	5.64E-19	0.84
30068	677477	679398	2.05E-114	0.76
30068	683751	684161	7.25E-18	0.73
30068	684656	685151	1.54E-40	0.91
30068	703284	705078	1.03E-67	0.75
30068	741444	741959	2.03E-30	0.83
30068	743795	744559	2.88E-29	0.85
30068	745899	746374	8.53E-36	0.94
30068	747967	748486	8.31E-22	0.84
30068	772172	772613	4.49E-20	0.82
30068	800590	801607	2.10E-72	0.8
30068	813101	813860	8.72E-38	0.77
30068	841054	841521	7.94E-40	0.85
30068	844976	845391	8.37E-33	0.83
30068	865500	865849	4.54E-20	0.69
30068	867544	868060	2.46E-11	0.72
30068	869374	870249	2.58E-18	0.8
30068	875431	876515	1.18E-94	0.89
30068	883388	884650	7.03E-56	0.78
30068	908713	909116	2.69E-21	0.81
30068	922602	923241	1.01E-36	0.72
30068	928028	928585	1.16E-37	0.87
30068	948422	949227	5.60E-27	0.77
30068	955602	956097	1.38E-32	0.87
30068	956412	956889	1.23E-16	0.78
30068	960116	960532	3.94E-19	0.89
30068	960744	961216	4.28E-16	0.77
30068	961997	962443	1.04E-21	0.82
30068	969958	970838	2.63E-67	0.86
30068	982714	983758	5.66E-32	0.79
30068	984222	984529	2.03E-16	0.74
30068	984853	985186	4.45E-12	0.81
30068	988969	990403	5.64E-82	0.83
30068	996049	996340	3.27E-17	0.76
30068	1026234	1027381	3.32E-63	0.87
30068	1032576	1033204	2.40E-62	0.74
30068	1046205	1046549	7.76E-36	0.88
30069	3378	3776	1.28E-04	0.81
30069	10564	10780	2.65E-04	0.92

30069	43078	43478	1.37E-18	0.79
30069	47627	48026	2.27E-24	0.94
30069	50900	51522	1.31E-08	0.85
30069	54116	55003	5.06E-08	0.94
30069	55973	56440	5.13E-09	0.77
30069	63772	64139	1.44E-06	0.84
30069	67329	67554	1.05E-06	0.96
30069	120560	121059	1.43E-16	0.88
30069	163704	164392	1.07E-28	0.91
30069	202709	202998	1.04E-11	0.85
30069	230081	230427	2.59E-06	0.72
30069	269517	269890	2.55E-16	0.77
30069	269540	269946	1.78E-17	0.79
30069	277661	278162	8.25E-07	0.96
30069	304692	304908	1.49E-09	0.7
30069	305125	305592	3.05E-27	0.92
30069	353396	354093	1.16E-63	0.93
30069	375171	375410	9.37E-07	0.86
30069	406979	407577	2.53E-21	0.96
30069	417611	417919	3.29E-47	0.92
30069	417798	418520	2.07E-07	0.89
30070	8730	9029	4.47E-31	0.96
30070	9699	9940	1.95E-12	0.73
30070	11881	12271	3.50E-32	0.92
30070	38402	38654	2.08E-09	0.98
30070	49807	50019	4.79E-11	0.94
30070	60637	60983	1.14E-06	0.66
30070	79384	79744	2.80E-09	0.72
30070	80126	81543	2.41E-37	0.75
30070	82677	83355	1.43E-14	0.77
30070	84040	84546	2.30E-11	0.65
30071	7809	8052	2.67E-14	0.95
30071	22231	22902	1.60E-71	0.77
30071	27063	28082	1.17E-58	0.78
30071	29583	29886	6.10E-67	0.93
30071	30147	30406	6.43E-51	0.84
30071	30618	30856	7.65E-42	0.96
30071	31201	32519	1.94E-85	0.6
30071	60826	61620	1.04E-30	0.73
30071	71028	71411	1.87E-35	0.7
30071	94517	95486	1.12E-32	0.73
30071	99782	100031	1.12E-13	0.9
30071	103022	104559	2.20E-52	0.86
30071	104792	105255	2.04E-19	0.74
30071	119893	121077	3.12E-191	0.95
30071	142625	143183	2.09E-24	0.93
30071	190282	190845	3.94E-20	0.76
30071	219949	220169	1.83E-52	0.94
30071	220921	221352	6.09E-22	0.97
30071	222425	222714	2.17E-24	0.64
30071	236148	236364	4.52E-51	0.88
30072	13715	14142	2.62E-07	0.77
30072	19610	20174	2.86E-09	0.63

30072	55424	55834	2.14E-39	0.77
30072	56556	56935	2.11E-15	0.7
30072	58111	58661	2.52E-12	0.82
30072	58913	59597	9.58E-20	0.9
30072	62112	62452	8.04E-14	0.8
30072	62943	63389	1.03E-11	0.82
30072	127759	128648	8.46E-37	0.89
30072	143829	144125	3.95E-25	0.87
30072	148287	149435	8.13E-39	0.63
30072	157362	157864	2.34E-22	0.83
30072	158596	158912	2.57E-23	0.89
30072	159305	160174	4.21E-56	0.91
30072	170899	171951	1.92E-31	0.81
30072	175861	176614	1.23E-34	0.72
30072	181721	182180	1.94E-44	0.83
30072	182398	183382	2.89E-84	0.89
30072	183669	184199	7.12E-66	0.77
30072	187368	188130	3.39E-51	0.87
30072	188394	189123	5.40E-42	0.82
30072	189432	189634	4.63E-48	0.88
30072	190675	191589	9.44E-53	0.62
30072	197826	198271	9.44E-22	0.78
30072	234444	234706	4.24E-16	0.86
30072	234952	235939	1.57E-55	0.92
30072	236570	236993	1.20E-26	0.88
30072	249132	249893	1.07E-30	0.71
30072	276014	276946	4.39E-57	0.61
30072	288689	289417	3.94E-49	0.94
30072	289711	290682	1.50E-26	0.78
30072	310788	311382	1.57E-21	0.79
30072	333025	334144	1.59E-44	0.62
30072	334379	334710	1.50E-60	0.92
30072	336692	337522	8.14E-73	0.89
30072	373621	373894	5.11E-32	0.92
30072	374557	375216	1.37E-39	0.88
30072	383553	384064	5.41E-27	0.86
30073	12384	13307	2.27E-29	0.76
30073	13520	14534	2.26E-51	0.92
30073	32195	32650	6.91E-12	0.69
30073	50587	51008	2.83E-15	0.85
30073	67298	67563	3.94E-13	0.82
30073	109593	110018	3.53E-21	0.84
30073	110412	110707	6.69E-15	0.81
30073	111792	112229	1.93E-30	0.92
30073	130258	130675	6.61E-24	0.91
30073	144782	146334	2.24E-90	0.91
30073	153369	153857	4.56E-18	0.8
30073	158326	158793	2.21E-34	0.9
30073	158998	159242	3.25E-41	0.94
30073	159593	160016	5.53E-10	0.71
30073	201870	202308	7.92E-25	0.85
30073	208716	209205	6.51E-15	0.78
30073	210065	210507	2.33E-49	0.89

30073	213996	214313	3.16E-20	0.81
30073	241781	242479	1.40E-50	0.94
30073	242825	243905	3.11E-56	0.79
30073	251214	251541	7.33E-17	0.77
30073	256750	257005	1.36E-18	0.9
30073	278186	278983	7.21E-44	0.9
30073	279336	279822	8.09E-32	0.88
30073	281574	282393	1.32E-65	0.85
30073	283111	283588	1.39E-20	0.75
30073	284639	285125	2.75E-24	0.9
30073	285342	286962	3.85E-87	0.87
30073	290883	292074	4.23E-110	0.9
30073	302502	304138	1.19E-75	0.8
30073	304403	304799	5.98E-35	0.94
30073	305753	306145	3.00E-14	0.8
30073	314923	315534	2.53E-25	0.82
30073	329200	330122	1.97E-35	0.75
30073	330453	331920	3.65E-65	0.84
30073	333764	334432	4.49E-29	0.84
30073	342387	342946	2.41E-37	0.79
30073	345501	345801	6.06E-26	0.8
30073	353691	354298	3.25E-22	0.82
30073	355297	355934	5.17E-26	0.81
30073	356170	356715	2.83E-36	0.83
30073	358223	359306	6.89E-53	0.86
30073	364414	366375	1.28E-89	0.85
30073	373298	374118	4.40E-38	0.73
30073	392610	394904	2.38E-51	0.81
30073	420377	421606	2.05E-40	0.77
30073	459956	461078	5.43E-67	0.8
30073	461364	462087	7.33E-44	0.89
30073	473210	474170	5.27E-44	0.81
30073	477332	477543	1.14E-12	0.75
30073	478384	479104	1.88E-36	0.84
30073	506837	507239	4.92E-17	0.67
30073	509258	509857	4.40E-14	0.6
30073	556623	557134	1.39E-13	0.62
30073	571538	572016	8.63E-25	0.88
30073	584121	585959	5.07E-80	0.75
30073	586445	587219	2.51E-23	0.8
30073	591028	591344	6.56E-13	0.92
30073	601064	601552	6.03E-31	0.82
30073	601842	602554	6.30E-46	0.83
30073	604006	605194	1.13E-32	0.6
30073	618583	619866	5.00E-71	0.85
30073	624397	625090	1.68E-47	0.89
30073	644417	644895	2.80E-26	1
30073	662243	663037	5.94E-96	0.79
30073	670895	671324	5.50E-15	0.81
30073	672076	672932	1.67E-23	0.72
30073	682991	683280	1.09E-05	0.72
30073	695041	695482	4.33E-35	0.92
30073	699693	700243	3.09E-22	0.86

30073	726738	727210	1.32E-17	0.8
30073	728093	728428	4.26E-13	0.81
30073	746333	746554	8.38E-15	0.83
30073	752317	752840	1.75E-32	0.62
30073	757172	758190	3.30E-32	0.68
30073	758982	759493	2.55E-20	0.71
30073	761625	761908	1.36E-25	0.9
30073	783682	783927	4.02E-04	0.39
30073	793633	794026	3.85E-08	0.94
30073	799612	801051	5.15E-24	0.6
30073	803217	803671	1.01E-07	0.83
30073	806414	808553	1.43E-70	0.71
30073	827140	827641	2.60E-15	0.62
30073	833987	834214	2.99E-17	0.9
30073	836062	836305	6.72E-15	0.71
30073	851063	851596	1.60E-15	0.81
30073	875829	876149	6.70E-05	0.66
30074	8826	9079	2.21E-35	0.94
30074	30436	30716	1.15E-13	0.77
30074	36408	37029	1.81E-26	0.82
30074	37235	37679	1.47E-30	0.9
30074	57210	58197	5.38E-38	0.76
30074	60034	60370	5.45E-16	0.64
30074	66059	66401	2.50E-23	0.83
30074	66625	66962	1.15E-26	0.83
30074	67212	67806	1.34E-23	0.79
30074	69172	69889	1.92E-60	0.67
30074	97066	97721	1.50E-25	0.84
30074	135506	135998	3.84E-14	0.61
30074	144378	144709	4.68E-11	0.66
30074	147747	149486	2.49E-117	0.67
30074	149821	150191	5.71E-21	0.74
30074	179033	180519	6.75E-67	0.84
30074	181991	182609	3.59E-40	0.83
30074	192196	193142	6.30E-31	0.77
30074	198817	199590	6.98E-105	0.88
30074	210237	210588	2.17E-09	0.93
30074	212085	212477	1.77E-06	0.71
30074	220003	220264	9.38E-16	0.85
30074	223457	224031	5.10E-12	0.74
30074	226210	226441	4.43E-26	0.76
30074	246547	247063	5.28E-16	0.84
30074	267257	267492	1.88E-13	0.67
30074	284705	285835	3.19E-33	0.8
30074	286914	287291	2.81E-17	0.7
30074	290117	291893	8.75E-51	0.78
30074	292814	293996	1.39E-55	0.85
30074	295078	295344	1.13E-14	0.81
30074	305331	305606	5.59E-13	0.86
30074	324218	324478	2.17E-27	0.84
30074	335820	337197	1.21E-81	0.78
30074	343120	343540	2.64E-32	0.86
30074	349116	349412	9.09E-50	0.94

30074	349648	350078	1.10E-36	0.94
30074	356098	356333	2.29E-04	0
30074	382430	382977	2.13E-34	0.86
30074	383506	384395	6.34E-47	0.94
30074	384762	385163	8.95E-50	0.87
30074	386869	387194	1.19E-08	0.61
30074	402018	402314	7.83E-05	0.83
30074	404301	404732	6.60E-16	0.95
30074	405008	405271	1.38E-33	0.96
30074	406529	406757	7.87E-27	0.93
30074	407885	408359	6.67E-37	0.83
30074	473264	473938	2.64E-27	0.79
30074	479297	479608	8.01E-16	0.8
30074	498778	500922	1.21E-97	0.79
30074	529626	530298	5.25E-38	0.96
30074	538712	539180	7.27E-31	0.84
30074	539453	541785	2.01E-62	0.78
30074	552709	553436	1.39E-17	0.66
30074	558212	558567	3.97E-23	0.81
30074	558774	559218	8.42E-58	0.94
30074	563475	564058	2.60E-08	0.85
30074	564305	564686	2.15E-12	0.74
30074	581178	581795	6.62E-46	0.77
30074	599696	600089	1.50E-26	0.92
30074	639310	639633	1.14E-20	0.68
30074	639844	641080	1.39E-54	0.72
30074	660397	661315	4.58E-17	0.82
30074	662273	662733	1.28E-14	0.94
30074	663772	664220	5.29E-16	0.66
30075	11369	11834	2.23E-29	0.8
30075	12561	12911	4.58E-20	0.87
30075	21847	22159	4.74E-19	0.79
30075	26462	27295	3.32E-22	0.83
30075	28804	29248	1.06E-34	0.89
30075	58974	59762	6.56E-90	0.94
30075	60079	61958	2.13E-28	0.69
30075	81257	81502	6.77E-16	0.78
30075	87114	87774	3.28E-19	0.66
30075	116736	117852	2.01E-45	0.77
30075	178494	179112	3.14E-16	0.68
30075	188675	188978	5.44E-25	0.95
30075	204961	205633	1.47E-52	0.85
30075	205949	206591	1.01E-35	0.9
30075	208162	208538	1.58E-25	0.89
30075	208793	209365	5.31E-32	0.9
30075	211131	211441	5.51E-20	0.9
30075	216453	216732	4.30E-19	0.89
30075	217655	218268	4.29E-42	0.86
30075	233623	234140	8.82E-10	0.79
30075	239907	240119	9.28E-20	0.77
30075	245004	245521	2.53E-09	0.69
30075	252045	253278	3.96E-62	0.77
30075	273938	274198	8.99E-26	0.8

30075	275538	276098	2.82E-15	0.83
30075	281734	282650	1.81E-27	0.73
30075	296470	297188	1.35E-30	0.88
30075	300137	300470	1.38E-21	0.93
30075	303871	304474	2.05E-50	0.8
30075	306281	306966	2.72E-30	0.64
30075	315347	315681	8.73E-19	0.87
30075	319318	320002	9.15E-47	0.89
30075	326338	327483	1.30E-44	0.82
30075	331313	331636	5.07E-33	0.73
30075	331551	331850	4.47E-29	0.78
30075	332074	332758	2.97E-32	0.66
30075	341937	342506	2.23E-74	0.91
30075	343473	343963	1.09E-38	0.88
30075	344183	344574	1.84E-23	0.89
30075	344972	345467	7.10E-43	0.84
30075	379154	379458	8.58E-10	0.8
30075	389861	390286	3.07E-52	0.78
30075	391502	392057	1.86E-52	0.95
30075	399739	400807	3.46E-64	0.86
30075	411172	411737	4.17E-10	0.7
30075	413163	413533	2.56E-13	0.82
30075	441109	441372	9.65E-16	0.84
30075	455971	456334	1.66E-17	0.79
30075	462373	462847	4.46E-08	0.75
30075	465801	466194	6.29E-51	0.93
30075	472442	472776	5.78E-24	0.94
30075	495871	498558	4.40E-98	0.82
30075	500349	500625	1.51E-14	0.81
30075	504606	504957	1.15E-32	0.77
30075	513540	514307	7.59E-61	0.84
30075	514909	515854	1.35E-48	0.82
30075	523012	523274	5.61E-16	0.9
30075	523645	524126	3.91E-46	0.86
30075	524496	525351	1.33E-31	0.8
30075	534448	535100	1.29E-25	0.76
30075	547327	547724	5.34E-21	0.73
30075	555070	555404	1.54E-25	0.93
30075	564068	564593	9.39E-45	0.92
30076	28628	29510	1.76E-28	0.74
30076	37063	37573	1.60E-74	0.8
30076	37879	38155	6.62E-21	0.84
30076	41838	42907	2.18E-39	0.76
30076	56467	56776	6.07E-53	0.96
30076	143737	144166	6.04E-25	0.91
30076	150757	151039	7.46E-22	0.82
30076	153799	154447	1.37E-23	0.78
30076	176481	177684	9.00E-127	0.93
30076	178024	179296	2.11E-58	0.9
30076	180467	180762	2.32E-21	0.93
30076	181172	181611	6.46E-41	0.84
30076	247571	248552	5.96E-61	0.78
30076	249153	249869	1.29E-71	0.89

30076	266959	267397	9.42E-40	0.88
30076	267598	267922	2.62E-16	0.72
30076	270292	270533	6.03E-47	0.72
30076	296783	297044	6.53E-34	0.91
30076	304367	305034	2.37E-68	0.85
30076	312849	314099	5.40E-49	0.77
30076	318520	319474	9.14E-30	0.79
30076	344405	345400	7.88E-97	0.9
30076	356217	357852	6.42E-96	0.63
30076	364481	365106	1.19E-43	0.9
30076	378906	380409	5.37E-56	0.76
30076	382608	382960	3.59E-59	0.96
30076	383336	383540	2.55E-12	0.91
30076	385126	385355	2.05E-19	0.69
30076	424140	424343	1.04E-36	0.86
30076	424957	425543	4.70E-43	0.8
30076	428429	429293	3.64E-28	0.82
30076	429527	430106	8.83E-26	0.82
30076	430648	430922	4.83E-20	0.8
30076	430721	430952	2.76E-26	0.81
30076	475986	476847	1.86E-31	0.64
30076	499887	500240	3.12E-04	0.79
30076	506834	507328	8.45E-15	0.74
30076	561897	562835	8.82E-34	0.81
30076	575206	575561	5.60E-08	0.64
30076	589157	589636	1.42E-13	0.77
30076	628426	628738	1.21E-57	0.85
30076	629009	629482	1.32E-123	0.9
30076	637638	637925	3.58E-08	0.64
30076	643375	644174	1.41E-31	0.84
30076	700881	702644	7.67E-94	0.87
30076	704061	705870	5.48E-65	0.8
30076	708364	708874	1.24E-21	0.87
30076	709723	710032	1.91E-11	0.73
30076	799754	800034	3.12E-34	0.75
30076	801367	801674	6.06E-21	0.9
30076	832995	833518	2.65E-36	0.89
30076	844751	846662	1.47E-131	0.8
30076	868316	868644	1.59E-15	0.82
30076	868960	869498	9.26E-22	0.86
30076	869781	870397	2.45E-23	0.76
30076	889334	889598	1.56E-24	0.88
30076	894950	896678	3.29E-110	0.71
30076	911028	912267	3.68E-62	0.84
30076	912472	912727	9.04E-26	0.83
30076	915746	916284	7.78E-20	0.86
30076	922109	923599	8.99E-70	0.79
30076	951835	952345	7.78E-18	0.81
30076	982772	983002	1.59E-19	0.88
30076	1000027	1000545	5.05E-49	0.91
30076	1001005	1001252	4.54E-43	0.92
30076	1002280	1003419	1.77E-34	0.75
30076	1067013	1067353	2.35E-19	0.76

30076	1070106	1070721	1.74E-25	0.78
30076	1073450	1073715	1.54E-26	0.86
30076	1081764	1083267	7.31E-28	0.68
30076	1085024	1085745	2.46E-52	0.8
30076	1086038	1086496	8.59E-25	0.85
30076	1154907	1155181	4.66E-10	0.76
30076	1160051	1160844	2.93E-40	0.87
30076	1176590	1179798	5.33E-120	0.77
30076	1219252	1219854	7.30E-16	0.81
30076	1227921	1228488	2.65E-44	0.8
30076	1233442	1233917	4.88E-23	0.85
30076	1238663	1239323	3.69E-40	0.93
30076	1239715	1240428	1.11E-32	0.87
30076	1277592	1277848	1.01E-10	0.77
30076	1305898	1306970	1.26E-56	0.87
30076	1311107	1311707	2.72E-29	0.95
30076	1313168	1313507	4.20E-18	0.88
30076	1313847	1314077	1.53E-16	0.79
30076	1319988	1320414	2.70E-27	0.62
30076	1320669	1321665	1.32E-102	0.94
30076	1322127	1322849	2.71E-32	0.76
30076	1328370	1328736	7.88E-16	0.81
30076	1332946	1333685	6.45E-49	0.9
30076	1339300	1340172	1.98E-38	0.8
30076	1341471	1341784	4.56E-27	0.82
30076	1342002	1342243	1.88E-36	0.94
30076	1363373	1364477	1.64E-45	0.68
30076	1366605	1367144	4.24E-43	0.86
30076	1367428	1368519	6.07E-81	0.74
30076	1373516	1374157	1.82E-125	0.89
30076	1374374	1375180	5.29E-102	0.91
30076	1375421	1376038	2.43E-41	0.63
30076	1378223	1378833	3.00E-47	0.86
30076	1382308	1382545	3.35E-08	0.65
30076	1406028	1406338	8.34E-23	0.9
30076	1421095	1421600	3.96E-15	0.83
30076	1422290	1422506	7.92E-24	0.85
30076	1422779	1424033	6.00E-174	0.91
30076	1424284	1425343	1.73E-54	0.73
30076	1452230	1452652	4.93E-31	0.7
30076	1460890	1461725	1.84E-122	0.93
30076	1463328	1464386	1.50E-87	0.85
30076	1464655	1465506	2.38E-100	0.86
30076	1466201	1467295	8.31E-114	0.79
30076	1484842	1485969	2.26E-69	0.76
30076	1490559	1490940	3.01E-16	0.77
30076	1495344	1495871	7.01E-25	0.77
30076	1513744	1514048	2.80E-15	0.6
30076	1571606	1573143	1.11E-45	0.63
30076	1576104	1576698	2.56E-23	0.76
30076	1600496	1601154	2.48E-48	0.7
30076	1605859	1606529	8.84E-22	0.86
30076	1614850	1615413	7.92E-16	0.76

30076	1642847	1643055	1.91E-16	0.84
30076	1645172	1645535	1.34E-16	0.92
30076	1645837	1646270	2.23E-38	0.89
30076	1649178	1649601	1.03E-21	0.68
30076	1655427	1655834	1.67E-20	0.79
30076	1695714	1696036	3.44E-47	0.91
30077	164807	165021	3.67E-12	0.8
30078	13447	15396	1.19E-84	0.69
30078	18022	18309	3.74E-12	0.78
30078	31340	31672	8.22E-27	0.85
30078	36584	36977	2.27E-17	0.68
30078	77546	78269	6.13E-47	0.96
30078	82032	82265	8.19E-19	0.86
30078	95971	96437	3.75E-37	0.86
30078	96719	97529	2.55E-75	0.83
30078	108235	108562	4.12E-21	0.76
30078	164940	166379	5.21E-49	0.63
30078	183784	184381	5.32E-11	0.8
30078	202084	202899	5.34E-51	0.94
30078	203659	204069	1.56E-26	0.88
30078	205053	205834	4.95E-56	0.92
30078	212660	213344	4.58E-18	0.83
30078	214188	214637	2.79E-15	0.86
30078	214918	215251	1.81E-33	0.91
30078	235467	236198	9.86E-61	0.88
30078	245551	246002	1.73E-21	0.66
30078	246215	246577	9.87E-18	0.81
30078	247171	249086	1.45E-79	0.84
30078	249457	250932	3.47E-81	0.86
30078	254794	255445	1.10E-15	0.77
30078	257228	257497	4.19E-07	0.84
30078	260291	261048	2.61E-40	0.83
30078	262438	262787	7.57E-23	0.84
30078	267556	267827	2.20E-14	0.81
30078	276586	277497	2.57E-45	0.68
30078	301619	301930	9.50E-10	0.61
30078	343251	344398	1.21E-61	0.7
30078	378040	378326	7.74E-16	0.84
30078	397736	398034	4.63E-04	0.81
30078	424844	425584	1.19E-22	0.84
30078	437141	438777	1.53E-118	0.88
30078	441624	441838	5.16E-62	0.88
30078	444104	444311	3.79E-09	0.85
30078	445647	447364	1.13E-61	0.76
30078	470784	471184	1.23E-29	0.8
30078	512120	512527	2.98E-17	0.82
30078	519059	519825	8.20E-43	0.76
30078	548498	548805	1.08E-33	0.88
30078	549009	549356	1.15E-17	0.89
30078	555240	555554	1.11E-13	0.81
30078	567610	568526	1.32E-64	0.69
30078	597039	597286	1.88E-20	0.68
30078	614245	614864	2.04E-28	0.83

30078	615161	616171	2.08E-44	0.88
30078	633812	634802	1.85E-32	0.6
30078	637904	638314	1.10E-32	0.86
30078	644596	645162	1.24E-47	0.87
30078	653208	653515	2.30E-18	0.81
30078	668467	669002	5.97E-34	0.75
30078	673231	673612	1.12E-15	0.8
30078	682848	683169	2.08E-12	0.76
30078	689716	690119	1.50E-21	0.67
30078	690344	690640	2.06E-10	0.6
30078	698610	699431	1.71E-49	0.85
30078	699723	700282	1.81E-49	0.8
30078	704621	704864	1.09E-10	0.75
30078	719406	719805	3.08E-36	0.84
30078	720048	721639	2.16E-138	0.85
30078	726327	727081	1.33E-40	0.79
30078	750858	751909	4.45E-53	0.78
30078	785746	786078	3.02E-32	0.81
30078	795964	796295	7.81E-12	0.72
30078	801064	801417	1.48E-34	0.79
30078	811640	813036	2.91E-157	0.91
30078	868089	868724	4.63E-18	0.64
30078	871243	871485	2.15E-08	0.89
30078	876557	877028	1.72E-32	0.89
30078	890071	890560	7.53E-46	0.87
30078	891214	891667	5.80E-18	0.82
30078	894660	895195	1.95E-13	0.79
30078	897310	897735	2.00E-22	0.89
30078	907488	907711	7.12E-12	0.65
30078	924619	925042	6.59E-20	0.77
30078	929867	930347	1.28E-45	0.85
30078	957938	958784	8.20E-38	0.87
30078	980168	980656	1.22E-23	0.65
30079	255	1165	3.08E-33	0.76
30079	25040	25544	2.33E-56	0.88
30079	25919	26163	9.09E-20	0.83
30079	30377	30649	1.40E-05	0.83
30079	31598	32268	2.26E-08	0.86
30079	34034	35360	6.45E-18	0.81
30079	37416	37855	1.14E-25	0.88
30079	62373	62758	7.54E-16	0.85
30079	63637	63911	2.34E-20	0.91
30079	76216	76420	4.20E-09	0.92
30079	79819	80261	1.43E-65	0.63
30079	94459	94946	8.81E-16	0.84
30079	107945	108235	1.00E-09	0.89
30079	129146	129516	5.18E-05	0.94
30079	142054	142583	4.38E-07	0.81
30079	142160	142601	1.70E-07	0.81
30079	142663	142919	2.75E-12	0.85
30079	154256	154647	8.56E-06	0.88
30079	185555	186243	2.18E-31	0.88
30079	189509	189890	1.14E-20	0.87

30079	213412	214072	7.62E-17	0.82
30079	227993	229385	8.85E-67	0.92
30079	230786	231187	2.97E-05	0.81
30079	245556	246139	4.53E-18	0.85
30079	249002	249254	1.86E-10	0.96
30079	281306	282958	1.18E-80	0.72
30079	373710	374076	2.07E-23	0.94
30079	434583	434951	3.03E-79	0.92
30079	435158	435413	2.40E-30	0.88
30079	435941	436403	2.14E-45	0.83
30079	443503	444482	6.45E-60	0.92
30079	444684	445670	1.50E-22	0.6
30079	469702	469903	1.69E-16	0.82
30079	473310	473634	4.60E-07	0.79
30079	473315	473806	8.45E-07	0.8
30079	478261	478497	2.83E-04	0.79
30079	699544	699765	3.52E-07	0.97
30084	5548	6542	4.19E-37	0.81
30084	17556	17839	9.32E-10	0.81
30084	30021	30896	1.92E-79	0.91
30084	43210	43550	2.12E-13	0.84
30084	68391	68833	1.02E-23	0.93
30084	69056	69516	5.38E-34	0.93
30084	80661	82464	7.59E-94	0.92
30084	94027	95422	2.51E-77	0.75
30084	108693	109579	9.85E-27	0.93
30084	123372	123805	4.24E-21	0.68
30085	19802	20284	8.80E-12	0.81
30085	24044	24316	3.98E-06	0.86
30085	78374	79475	9.29E-33	0.88
30085	79880	80510	1.39E-21	0.81
30085	88102	88640	7.62E-13	0.87
30085	97368	98023	8.87E-15	0.87
30085	111589	112276	2.51E-14	0.96
30086	53247	53699	3.96E-53	0.9
30086	54419	54815	1.37E-34	0.91
30086	55018	55476	1.01E-51	0.95
30086	85953	87104	3.05E-59	0.92
30086	103009	103576	5.72E-27	0.92
30086	106658	107025	3.48E-21	0.79
30086	107232	107741	8.09E-29	0.95
30086	108141	108492	1.64E-25	0.9
30086	109559	109960	1.37E-10	0.64
30086	168290	168834	5.61E-28	0.96
30086	173552	173851	8.12E-24	0.85
30086	174966	175234	3.54E-14	0.63
30086	188315	188633	3.41E-48	0.96
30086	189390	189831	4.61E-53	0.9
30086	204533	204968	1.72E-25	0.93
30086	207913	208412	1.00E-17	0.68
30088	14291	14567	5.98E-11	0.94
30088	63522	63761	9.54E-04	0.76
30088	79742	80125	3.06E-09	0.84

30088	123089	123333	4.02E-10	0.81
30088	136356	136587	9.50E-11	0.83
30088	157233	157586	3.54E-12	0.89
30088	162871	163094	2.27E-15	0.86
30088	192657	194166	5.38E-32	0.84
30088	234734	235023	1.01E-07	0.81
30088	237174	237382	5.75E-09	0.75
30088	237587	238326	2.36E-10	0.8
30088	293731	293978	7.09E-06	0.87
30088	302114	302507	9.23E-18	0.82
30089	8674	8949	6.96E-10	0.96
30089	19238	20018	3.96E-55	0.85
30089	21203	21900	5.77E-46	0.82
30089	65222	65463	4.05E-12	0.83
30089	78219	78580	3.26E-24	0.81
30089	119359	119582	2.80E-14	0.88
30089	131960	132549	1.54E-27	0.9
30089	137537	138098	5.46E-49	0.81
30089	168022	168454	1.61E-06	0.74
30089	245277	245532	1.38109041	0.82
30089	272625	273065	4.67E-87	0.93
30089	273333	273866	3.68E-66	0.99
30089	418339	418647	1.32E-04	0.88
30089	578188	579503	2.06E-85	0.95
30089	579804	580187	2.25E-28	0.63
30089	643353	643590	4.83E-08	0.76
30089	759206	759482	1.30E-22	0.94
30089	759882	760413	2.62E-63	0.95
30089	845939	846341	2.09E-04	0.74
30089	877182	877475	9.02E-07	0.95
30089	907003	907336	1.97E-03	0.8
30089	939708	940073	8.35E-08	0.8
30089	941947	942209	1.00E-32	0.85
30089	956783	957441	9.73E-08	0.96
30089	1064185	1064507	8.17E-24	0.85
30089	1065411	1065820	1.57E-33	0.86
30089	1120571	1120884	2.09E-15	0.84
30089	1131946	1132454	5.19E-28	0.93
30089	1133842	1134733	6.31E-19	0.76
30089	1191355	1191734	1.72E-18	0.91
30089	1195338	1195889	8.45E-26	0.91
30089	1197030	1197323	7.31E-50	0.97
30089	1208933	1209159	5.86E-08	0.9
30089	1262493	1263603	5.56E-47	0.81
30089	1264326	1264588	2.52E-32	0.93
30089	1265272	1265680	2.47E-28	0.83
30089	1269249	1270032	2.08E-37	0.84
30089	1270597	1270877	6.94E-25	0.91
30089	1271147	1272303	3.73E-120	0.95
30089	1277118	1277351	2.64E-08	0.88
30089	1285106	1285731	5.09E-07	0.95
30089	1333449	1333880	5.53E-16	0.85
30089	1343079	1343385	2.87E-49	0.9

30089	1386652	1386873	1.17E-07	0.82
30089	1474841	1475081	1.38E-25	0.83
30089	1477121	1477837	7.50E-28	0.72
30089	1507175	1507665	4.41E-05	0.93
30089	1513850	1514163	3.47E-05	0.71
30089	1572204	1572574	3.41E-06	0.88
30090	675	1330	2.80E-09	0.66
30090	43126	44021	1.94E-79	0.78
30090	91876	92145	1.16E-12	0.83
30090	139584	139922	3.96E-26	0.87
30090	140238	140572	1.70E-17	0.82
30090	145665	147178	4.61E-78	0.89
30090	147433	147959	2.10E-51	0.95
30091	5152	5567	2.07E-65	0.86
30091	5966	6299	3.10E-44	0.84
30091	68703	69059	2.32E-31	0.85
30091	76904	77254	1.25E-22	0.89
30091	85253	85603	4.01E-16	0.85
30091	120140	120590	4.06E-19	0.93
30091	124654	125295	3.56E-21	0.79
30091	185124	185720	5.45E-54	0.89
30091	197716	198133	1.16E-65	0.94
30092	10625	11009	1.36E-05	0.86
30092	10946	11320	3.89E-12	0.9
30092	11509	11780	3.55E-05	0.87
30092	13477	13800	8.53E-13	0.84
30092	45826	46174	2.93E-10	0.88
30092	46534	46826	1.50E-07	0.84
30092	46606	46941	6.01E-11	0.88
30092	48950	49745	7.54E-105	0.92
30092	52159	52405	1.36E-05	0.81
30092	66620	66834	4.31E-09	0.83
30092	70251	70532	8.48E-13	0.86
30092	96718	96925	4.87E-13	0.9
30092	118552	118887	9.15E-06	1
30092	119787	120018	1.05E-06	0.8
30092	123204	123590	4.08E-05	0.81
30092	171464	171812	1.49E-04	0.69
30092	171899	172381	9.50E-08	0.82
30092	180099	180870	7.25E-10	0.75
30092	186813	187227	2.76E-05	0.91
30092	190677	190978	1.02E-37	0.76
30092	191804	192020	4.14E-15	0.85
30092	203247	203554	1.56E-15	0.82
30092	204802	205049	2.03E-15	0.93
30092	234171	234557	1.99E-10	0.86
30093	5937	6247	3.03E-07	0.85
30093	15243	16444	3.27E-38	0.61
30093	19648	20307	5.22E-45	0.86
30093	27377	28526	9.94E-46	0.84
30093	28888	30058	1.95E-44	0.73
30093	34143	34503	1.31E-15	0.63
30093	37602	38070	2.45E-37	0.89

30093	54807	55438	1.49E-22	0.92
30093	55669	56091	1.00E-50	0.93
30093	56333	57000	5.49E-26	0.88
30093	57330	57575	8.98E-21	0.89
30093	58634	59072	4.10E-21	0.85
30093	59413	59926	2.98E-25	0.92
30093	63011	63479	2.62E-23	0.85
30093	85418	86647	3.20E-49	0.8
30093	90321	90985	4.91E-15	0.68
30093	103174	104459	2.10E-141	0.89
30093	108778	109655	2.69E-80	0.94
30093	113117	113555	1.11E-43	0.9
30093	132139	132604	3.91E-15	0.76
30093	136190	137217	3.34E-35	0.83
30093	152357	153007	2.08E-61	0.9
30093	154949	155194	3.58E-19	0.95
30093	155685	156173	8.77E-28	0.82
30093	161542	162301	1.22E-44	0.64
30093	206932	207683	1.29E-26	0.82
30093	226644	226973	1.13E-46	0.93
30093	227542	227854	3.60E-39	0.92
30093	228703	229419	3.91E-62	0.93
30093	234976	235653	4.30E-28	0.9
30093	237046	238204	5.37E-32	0.79
30094	20418	21311	9.23E-45	0.93
30094	22704	23225	5.35E-17	0.77
30094	28208	28567	7.46E-28	0.91
30094	66370	66940	1.58E-34	0.9
30094	67887	68290	6.86E-55	0.93
30094	69994	70377	7.14E-35	0.89
30094	70606	71217	3.73E-27	0.93
30094	98317	98802	1.37E-77	0.94
30094	112006	112483	9.81E-60	0.85
30094	144234	145136	2.02E-33	0.63
30094	150951	151295	4.27E-34	0.89
30094	227472	227825	1.20E-77	0.91
30094	241095	241355	2.83E-25	0.91
30094	243077	243532	9.67E-32	0.96
30094	295554	296020	1.63E-20	0.82
30094	389848	390200	4.35E-23	0.94
30094	446864	447386	8.28E-04	1
30094	489183	489551	9.98E-06	0.91
30094	504842	505477	1.46E-30	0.94
30094	505976	506331	5.43E-28	0.94
30094	514446	515058	6.29E-78	0.95
30096	19041	19687	6.66E-08	0.89
30096	22599	22966	6.38E-04	0.77
30096	36172	36920	4.03E-32	0.74
30096	38326	38701	6.02E-09	0.85
30096	40683	40891	2.51E-04	0
30096	70741	71227	9.09E-18	0.82
30096	198303	198748	2.80E-31	0.89
30096	227924	228471	2.74E-04	0.95

30098	69873	70819	9.90E-11	0.74
30098	71148	71670	2.95E-07	0.96
30098	92943	93739	2.65E-41	0.91
30098	93976	95427	6.02E-87	0.93
30098	107681	108596	3.06E-26	0.85
30098	109838	110685	2.22E-20	0.78
30098	112113	112376	3.32E-22	0.93
30098	113669	113987	1.62E-35	0.95
30098	117274	117818	2.90E-47	0.99
30098	122280	122669	2.53E-06	0.87
30098	157668	157934	1.03E-04	0.12
30098	174447	175357	2.05E-56	0.91
30098	175576	175999	1.92E-61	0.99
30098	190315	191338	3.69E-36	0.74
30098	241092	241600	8.52E-25	0.78
30098	286218	287555	1.83E-50	0.76
30098	292272	293304	2.40E-32	0.78
30098	294857	295601	9.12E-49	0.97
30098	327144	327572	1.66E-06	0.97
30098	360690	361107	1.38E-36	0.87
30098	401378	402121	4.12E-24	0.8
30098	434707	435188	6.94E-16	0.85
30098	435389	436423	1.80E-48	0.9
30098	447985	448288	3.46E-06	0.95
30098	452049	452431	6.09E-147	0.96
30098	496609	496982	1.01E-19	0.9
30098	507926	508540	2.77E-28	0.94
30098	522029	522360	3.88E-25	0.72
30098	522602	522907	4.25E-33	0.82
30098	576771	577191	4.85E-15	0.77
30098	597409	597771	3.31E-18	0.78
30098	671340	671543	1.45E-05	0.86
30098	674527	674921	1.01E-06	0.9
30098	687069	687557	1.12E-20	0.87
30098	721010	721467	2.78E-06	0.89
30098	747701	748062	1.05E-10	0.81
30098	882150	882734	3.71E-67	0.86
30098	888447	888851	4.48E-09	0.74
30098	889645	890006	1.46E-49	0.91
30098	892843	893302	3.32E-38	0.76
30098	893914	894398	3.28E-43	0.9
30098	900637	901278	2.20E-17	0.84
30098	902106	902430	1.61E-45	0.93
30098	943802	944994	8.34E-61	0.97
30098	1013811	1014034	1.27E-17	0.92
30098	1032106	1032435	2.14E-11	0.83
30098	1033291	1033546	4.73E-07	0.94
30098	1039239	1039723	1.86E-05	0.95
30098	1055444	1055966	2.71E-148	0.92
30098	1132822	1133675	5.23E-53	0.86
30098	1133940	1134641	3.29E-72	0.91
30098	1135272	1135574	9.52E-18	0.85
30098	1136142	1136637	1.30E-42	0.62

30098	1153466	1153960	6.59E-40	0.84
30098	1254473	1254889	8.85E-06	0.86
30098	1409437	1409681	1.54E-08	0.92
30098	1414923	1415536	8.75E-31	0.65
30098	1416117	1417293	2.19E-55	0.69
30098	1466483	1466734	5.09E-07	0.88
30098	1492111	1492800	1.30E-67	0.91
30099	19504	20009	2.00E-15	0.81
30099	25122	25980	6.05E-39	0.7
30099	47620	48083	5.93E-22	0.71
30099	60977	61412	1.41E-08	0.71
30099	62138	62776	9.16E-26	0.81
30099	65363	65638	5.81E-31	0.85
30099	73444	75026	6.88E-288	0.89
30099	77949	78452	2.67E-24	0.64
30099	87123	87530	3.61E-38	0.85
30099	90865	91708	1.26E-89	0.94
30099	97362	97662	5.86E-14	0.88
30099	97876	98745	1.44E-40	0.73
30099	99241	99955	8.28E-53	0.85
30099	100627	101158	2.26E-18	0.77
30099	104474	105087	5.06E-27	0.8
30099	113271	113858	2.62E-55	0.83
30099	115019	115472	2.18E-65	0.92
30099	176499	176725	2.71E-26	0.96
30099	222156	222759	2.33E-08	0.67
30099	233649	234034	6.57E-12	0.72
30099	234289	234627	1.34E-25	0.89
30099	234935	235789	3.24E-105	0.95
30099	236388	237135	1.23E-31	0.75
30099	238694	240033	7.45E-69	0.61
30099	240348	240582	6.42E-34	0.69
30099	242662	243022	7.18E-28	0.83
30099	252285	252579	5.35E-28	0.91
30099	312877	313273	3.81E-32	0.9
30099	322743	323236	3.61E-07	0.63
30099	326141	326445	1.21E-13	0.73
30099	330230	331106	2.86E-24	0.79
30099	333629	333830	1.22E-18	0.92
30099	351009	351576	3.67E-69	0.89
30099	359170	360794	3.34E-132	0.67
30099	368062	368541	3.08E-13	0.68
30099	368777	369466	1.15E-18	0.61
30099	380893	382002	3.30E-98	0.84
30099	382408	383959	5.29E-199	0.91
30099	385438	385653	1.71E-09	0.82
30099	393299	393700	9.87E-11	0.9
30099	400991	401347	7.07E-64	0.92
30099	402574	402873	4.16E-11	0.9
30099	410824	411874	1.10E-121	0.89
30099	439124	439418	1.31E-18	0.88
30099	453840	454041	5.80E-07	0.84
30099	466095	466437	2.61E-11	0.94

30099	471933	472812	2.34E-17	0.95
30099	499041	499519	1.88E-37	0.74
30099	553268	553512	1.50E-12	0.82
30099	557869	558419	9.90E-22	0.78
30099	584974	585633	5.77E-10	0.64
30099	596039	596406	3.06E-39	0.88
30099	596658	596973	2.49E-18	0.77
30099	596725	597064	6.74E-17	0.82
30099	624919	626364	4.88E-98	0.76
30099	638807	639061	8.80E-15	0.87
30100	35592	35798	5.16E-35	0.89
30100	130620	130857	9.45E-04	0.94
30100	142082	142341	1.36E-20	0.8
30100	169812	170111	2.71E-14	0.92
30100	264030	264463	6.12E-36	0.96
30100	268903	269206	6.88E-13	0.73
30100	269339	269649	4.05E-11	0.77
30100	271094	271664	1.28E-38	0.9
30100	272037	272572	1.24E-15	0.72
30100	273076	273852	1.20E-39	0.95
30100	274062	274494	2.35E-14	0.71
30100	321670	321870	6.12E-05	1
30100	364801	366198	3.05E-44	0.61
30100	381255	381903	2.94E-51	0.97
30100	458758	459314	2.81E-38	0.84
30100	467954	468300	4.01E-29	0.85
30100	472446	472835	5.51E-50	0.76
30100	473529	474676	8.13E-79	0.93
30100	497920	498530	7.37E-24	0.91
30100	504628	505421	1.11E-06	0.94
30100	512119	512775	5.68E-14	0.84
30100	636224	636961	3.23E-29	0.69
30100	639905	640159	8.77E-15	0.79
30100	670507	670799	3.62E-16	0.89
30100	671530	672828	5.14E-66	0.9
30100	682064	682836	7.06E-50	0.96
30100	726090	726324	8.60E-07	0.91
30100	726281	726677	3.00E-07	0.91
30101	20921	21933	2.84E-63	0.83
30101	22266	23259	1.20E-84	0.94
30101	25856	26717	9.65E-33	0.83
30101	27928	28983	4.76E-49	0.83
30101	29473	30166	2.56E-46	0.91
30101	36906	37576	8.36E-34	0.81
30101	37853	38362	5.38E-20	0.81
30101	101686	102332	9.73E-45	0.87
30101	117753	118115	1.88E-25	0.81
30101	130114	130482	7.88E-23	0.9
30101	148676	148986	2.57E-19	0.81
30101	154326	154580	3.79E-26	0.92
30101	155262	155759	1.71E-17	0.79
30101	156025	156236	5.63E-24	0.64
30101	169521	170310	4.80E-41	0.73

30101	170845	171203	7.29E-24	0.93
30102	71601	71900	1.69E-03	1
30102	75965	76387	2.07E-03	0.79
30102	101339	102146	1.02E-08	0.84
30104	6245	7072	2.96E-07	0.97
30104	42916	43200	1.59E-07	0.8
30104	58766	59154	2.26E-15	0.81
30104	65723	66035	7.40E-04	0.91
30104	72694	72965	2.49E-03	0.88
30104	107974	109190	8.84E-14	0.9
30104	119479	119752	9.45E-06	0.86
30104	157815	158367	1.47E-12	0.95
30104	196571	197002	3.98E-04	0.76
30104	211815	212244	2.15E-21	0.92
30104	241158	241395	2.07E-06	0.78
30104	241673	242809	1.34E-21	0.79
30105	4123	4484	4.46E-07	0.89
30105	85616	85818	3.65E-08	0.91
30105	108236	108686	7.11E-05	0.83
30105	116957	117421	1.82E-07	0.8
30105	281924	282145	9.04E-04	0.85
30105	317883	318125	2.41E-07	0.95
30105	333117	333413	8.15E-11	0.96
30105	340185	340480	6.27E-06	0.79
30106	24735	25444	3.39E-07	0.78
30106	49189	49552	5.28E-07	0.79
30106	55714	55978	3.52E-114	0.81
30106	232790	233595	1.24E-29	0.95
30106	273573	273903	5.80E-16	0.89
30106	296440	297902	3.24E-95	0.88
30106	298644	298914	2.92E-47	0.9
30106	300132	301306	1.04E-78	0.84
30106	301540	302498	1.73E-149	0.96
30106	303040	304481	3.15E-149	0.95
30106	311086	311333	9.38E-34	0.93
30106	321844	322310	1.32E-36	0.85
30106	322537	322742	6.25E-24	0.9
30106	366405	366622	1.86E-07	1
30106	370471	370917	1.59E-14	0.7
30106	407168	407911	4.09E-59	0.83
30106	408565	409350	1.90E-42	0.74
30106	410477	410917	2.96E-34	0.64
30106	417817	418095	4.71E-36	0.87
30106	418324	419520	1.28E-74	0.94
30106	464286	464694	8.33E-44	0.99
30106	465522	465932	7.46E-16	0.84
30106	466136	466639	3.97E-12	0.84
30106	469137	469674	1.19E-47	0.94
30106	469980	470542	7.32E-14	0.9
30106	528385	528814	1.82E-19	0.78
30106	532180	532730	6.49E-31	0.89
30106	535794	536172	4.76E-62	0.93
30106	539150	539492	6.54E-15	0.82

30106	541333	542005	1.48E-17	0.88
30106	564266	564471	8.47E-06	0.89
30106	572189	573048	3.31E-64	0.92
30106	651292	652841	8.23E-85	0.82
30106	661031	661279	7.14E-16	0.97
30106	662204	662541	8.40E-19	0.95
30106	736528	736850	1.97E-30	0.8
30107	101409	101832	2.62E-04	0.78
30107	113349	113754	4.61E-23	0.88
30107	125837	126063	8.00E-06	0.88
30107	129084	129433	3.25E-12	1
30107	133787	134298	7.48E-05	0.89
30107	147055	147396	5.16E-04	0.78
30108	8702	8971	2.23E-10	0.87
30108	11630	11969	4.12E-20	0.97
30108	14983	15207	1.94E-14	0.82
30108	36073	36391	5.39E-10	0.83
30108	59438	59669	5.97E-18	0.83
30108	68176	68838	1.56E-33	0.97
30108	71175	71413	1.04E-24	0.81
30108	89046	90308	1.29E-58	0.77
30108	95756	96844	1.55E-98	0.93
30108	100678	101035	1.95E-15	0.8
30109	249	775	8.04E-14	0.65
30109	2364	3076	5.72E-13	0.84
30109	3350	3903	5.86E-29	0.75
30109	11763	12633	6.07E-19	0.7
30109	23843	24321	3.98E-05	0.8
30109	47946	48614	1.03E-182	0.93
30109	89469	89982	2.53E-16	0.85
30109	90189	90585	2.12E-25	0.65
30109	131947	132198	8.62E-21	0.97
30109	146709	147207	2.41E-16	0.84
30109	148173	148474	2.69E-25	0.8
30109	148833	149250	2.87E-78	0.86
30109	152056	153359	4.96E-127	0.91
30110	64046	64251	5.72E-07	0.88
30110	83982	84429	2.32E-08	0.95
30110	88724	89074	5.60E-06	0.97
30110	123774	124131	1.88E-35	0.98
30110	124685	125917	3.44E-123	0.91
30110	127411	128839	1.81E-119	0.9
30110	188382	189341	4.41E-87	0.97
30110	189582	190107	1.42E-35	0.94
30110	249429	249694	3.56E-07	0.9
30110	302029	302411	2.33E-05	0.82
30110	306074	306395	2.09E-06	0.86
30110	324922	325527	2.92E-45	0.86
30110	340936	341498	3.72E-18	0.8
30110	342988	343355	7.34E-33	0.86
30110	421064	421398	3.43E-14	0.83
30110	428653	428879	4.99E-11	0.81
30110	453701	454190	2.81E-26	0.85

30110	477351	477797	5.19E-06	0.8
30110	537044	537285	7.91E-06	1
30110	541707	542134	6.05E-09	0.63
30110	542700	543177	9.77E-37	0.86
30110	573566	573858	1.27E-05	0.91
30110	626944	627477	2.53E-07	0.84
30110	710794	711137	7.21E-16	0.83
30110	713936	714496	1.98E-24	0.86
30110	718522	719210	9.92E-30	0.82
30110	719430	719854	2.80E-14	0.83
30110	720073	720402	6.26E-13	0.79
30110	776082	776516	4.05E-06	0.78
30110	777710	778636	2.98E-18	0.74
30111	10569	11632	1.09E-64	0.75
30111	11892	13491	2.74E-118	0.91
30111	18568	18817	2.14E-33	0.85
30111	49193	49818	1.55E-21	0.62
30111	60285	61991	7.79E-82	0.77
30111	72311	73163	8.18E-42	0.77
30111	73840	74273	9.43E-24	0.85
30111	74887	75532	4.62E-28	0.76
30111	84480	84971	3.06E-30	0.91
30111	96720	97635	8.90E-39	0.82
30111	116541	117326	4.03E-32	0.82
30111	122291	122702	4.96E-26	0.74
30111	131483	131722	5.45E-07	0.73
30111	145721	146259	3.31E-51	0.96
30111	159665	160267	6.77E-33	0.83
30111	160545	160957	7.87E-19	0.93
30111	195455	195930	8.06E-12	0.87
30111	213319	213762	1.95E-29	0.86
30111	223068	223512	3.28E-26	0.95
30111	224582	225057	1.99E-11	0.84
30111	242163	242774	1.69E-40	0.87
30111	248312	248889	2.03E-49	0.85
30111	252298	253046	2.66E-52	0.78
30111	259726	260625	9.48E-34	0.64
30111	266604	266995	1.12E-21	0.76
30111	271364	271664	5.33E-26	0.74
30111	271904	272721	1.34E-69	0.81
30111	273516	274653	8.11E-65	0.93
30111	285725	286937	2.16E-59	0.74
30111	287185	287588	1.53E-10	0.6
30111	304518	304820	3.01E-14	0.73
30111	310281	310751	2.73E-13	0.72
30111	353178	354446	1.39E-58	0.83
30112	892	1118	3.62E-04	0.81
30112	2734	3056	4.37E-05	0.83
30112	14215	14448	2.11E-04	0.86
30113	49045	49318	2.82E-06	0.88
30113	117188	117474	1.63E-22	0.79
30113	126468	127509	3.13E-59	0.95
30113	127844	129501	5.68E-193	0.95

30113	129773	130657	1.97E-83	0.98
30113	137584	138192	3.25E-44	0.93
30113	138510	138784	8.51E-23	0.96
30113	142114	142470	1.73E-34	1
30113	142875	143202	1.01E-46	0.91
30113	276521	276930	1.86E-06	0.82
30113	314914	315996	5.40E-23	0.72
30113	363919	364932	2.43E-89	0.94
30113	365290	365757	3.98E-21	0.93
30113	405595	406727	7.65E-37	0.67
30113	408085	408741	1.21E-79	0.92
30113	426246	426489	1.43E-18	0.96
30113	428468	428884	9.61E-17	0.96
30113	482316	483222	1.34E-14	0.88
30113	484083	484587	8.24E-05	0.94
30113	489003	490541	1.88E-53	0.74
30113	492856	493096	2.86E-17	0.89
30113	497319	498296	6.94E-68	0.91
30113	498562	498868	7.55E-21	0.9
30113	505583	505804	8.90E-25	0.94
30113	507715	508310	6.10E-41	0.94
30113	551092	552479	1.19E-85	0.68
30113	552743	553796	2.45E-42	0.84
30113	609421	609927	8.14E-08	0.89
30113	633734	634012	1.44E-16	0.9
30113	634250	634705	3.82E-21	0.97
30113	675596	675902	3.35E-14	0.74
30113	685492	685992	4.46E-42	0.95
30113	723761	724722	1.45E-54	0.91
30113	727258	727770	6.44E-30	0.93
30113	798762	799126	2.06E-05	0.78
30113	798779	799272	1.95E-08	0.84
30113	799219	799475	4.39E-04	0.79
30113	801237	802055	4.13E-24	0.77
30113	840899	841260	7.07E-26	0.83
30113	841985	842724	1.51E-41	0.91
30113	844138	844453	2.68E-24	0.76
30113	844673	845393	4.12E-43	0.93
30113	883014	883350	1.17E-16	0.92
30113	900515	900798	5.70E-07	0.9
30113	959590	959857	1.75E-21	0.82
30113	985303	985962	2.77E-22	0.94
30113	1078167	1078382	5.30E-25	0.96
30113	1078904	1079204	2.07E-66	0.96
30113	1080055	1080398	6.49E-44	0.96
30113	1082154	1082446	4.17E-08	0.93
30113	1100229	1100617	1.48E-03	0.88
30113	1103202	1103844	2.18E-17	0.79
30113	1174640	1175355	1.22E-10	0.85
30113	1207794	1208235	2.28E-23	0.91
30114	37177	38105	4.51E-66	0.92
30114	42409	42759	6.36E-07	0.81
30114	45323	45702	1.11E-31	0.73

30114	62862	63255	2.66E-47	0.81
30114	64192	64516	2.18E-35	0.89
30114	64984	65393	9.21E-16	0.83
30114	67570	68112	8.67E-17	0.78
30114	68913	69215	1.23E-18	0.89
30114	69440	71097	1.38E-67	0.91
30114	84224	84448	9.71E-14	0.75
30114	95866	96155	8.22E-21	0.81
30114	122797	123777	5.27E-71	0.81
30114	140421	141766	4.42E-101	0.85
30114	158618	159029	3.19E-09	0.8
30114	169037	169291	1.66E-16	0.79
30114	173799	174292	5.86E-16	0.69
30114	186949	187331	4.05E-20	0.76
30114	193775	195010	1.97E-57	0.86
30114	196453	197035	2.40E-29	0.8
30114	203010	203248	2.19E-08	0.78
30114	213422	213733	3.85E-12	0.66
30114	214002	214418	7.18E-23	0.81
30114	239046	239288	9.39E-08	0.8
30114	247142	247631	6.58E-20	0.89
30114	248796	249197	6.73E-26	0.82
30114	251488	252056	5.58E-23	0.82
30114	263350	263966	1.32E-31	0.86
30115	13342	13957	4.23E-34	0.77
30115	24692	24963	1.63E-29	0.9
30115	26398	27353	1.98E-46	0.86
30115	46177	47000	1.41E-58	0.9
30115	118602	118916	5.33E-27	0.77
30115	119182	119613	7.82E-40	0.87
30115	119854	120565	2.83E-94	0.93
30115	137879	138135	1.39E-17	0.77
30115	143113	143401	6.74E-23	0.7
30115	146239	147656	1.72E-46	0.86
30115	162226	163069	4.49E-31	0.63
30115	180052	180666	1.22E-18	0.74
30115	219478	221328	3.98E-109	0.89
30115	243086	243463	4.38E-13	0.86
30115	248888	249091	2.39E-16	0.94
30115	252198	252430	3.35E-12	0.71
30115	267773	268625	7.46E-44	0.76
30115	268846	269510	1.36E-27	0.83
30115	286897	287253	1.01E-37	0.75
30115	365353	365932	1.47E-25	0.62
30115	376791	377394	6.13E-24	0.62
30115	393995	394288	9.89E-11	0.67
30115	412861	413079	4.72E-31	0.91
30115	426447	427286	9.27E-79	0.61
30115	480268	480635	1.26E-24	0.69
30115	487667	489094	1.96E-111	0.91
30115	529235	530619	6.90E-77	0.72
30115	537911	538459	2.96E-15	0.69
30115	546297	546660	9.70E-15	0.87

30116	46990	47466	1.07E-21	0.81
30116	47724	48369	2.96E-39	0.88
30116	49736	50131	1.23E-36	0.92
30116	67587	68117	3.82E-26	0.87
30116	68986	69846	2.62E-60	0.92
30116	70178	70552	3.58E-10	0.8
30116	71515	71801	1.02E-34	0.92
30116	72885	73362	2.08E-35	0.95
30116	74723	75073	2.86E-24	0.85
30116	76592	76930	1.11E-26	0.83
30116	115118	117329	2.44E-100	0.87
30116	159803	160146	1.95E-39	0.95
30116	166561	166786	3.55E-09	0.82
30116	169482	170018	5.53E-33	0.79
30116	187154	187436	2.06E-28	0.65
30116	191393	191750	1.53E-23	0.8
30116	193257	193663	1.16E-32	0.86
30116	210634	211503	1.29E-59	0.8
30116	215382	215730	7.88E-38	0.83
30116	230888	231621	2.57E-43	0.93
30116	244246	245684	8.23E-60	0.72
30116	247780	248479	1.59E-40	0.92
30117	27519	28366	9.60E-28	0.88
30117	29656	30013	3.59E-14	0.97
30117	51112	51610	3.59E-37	0.94
30117	53563	53983	1.21E-20	0.92
30117	55130	55549	1.70E-12	0.87
30117	123845	124160	3.19E-12	0.98
30117	172561	173377	1.55E-44	0.95
30117	213958	214307	1.04E-04	0.96
30117	225231	225509	3.53E-92	0.87
30117	225842	226422	9.22E-45	0.93
30117	227458	228110	1.21E-62	0.94
30117	258094	258457	5.73E-08	0.95
30117	323683	324207	8.37E-31	0.93
30118	58028	58396	5.52E-46	0.98
30118	172487	172789	1.47E-15	0.88
30118	214602	215025	5.77E-07	0.93
30118	255486	255751	6.21E-15	0.82
30118	257663	258237	6.47E-08	0.75
30118	268682	269421	8.57E-14	0.76
30119	90535	91049	1.45E-21	0.8
30119	115530	115841	3.44E-38	0.95
30119	259165	259610	5.33E-23	0.94
30119	577537	577752	7.00E-12	0.94
30119	628637	629069	8.31E-14	0.79
30119	629466	629950	1.06E-13	0.89
30119	651129	651497	9.86E-12	0.98
30119	682952	683224	2.82E-13	0.91
30120	46155	47074	3.43E-43	0.88
30120	48061	48627	1.18E-20	0.72
30120	57533	58163	1.28E-62	0.79
30120	59302	59717	1.33E-30	0.82

30120	60717	61414	2.84E-54	0.91
30120	61618	62191	1.29E-32	0.79
30120	62399	63449	4.81E-90	0.7
30120	74530	74983	8.04E-28	0.78
30120	84012	84683	2.24E-44	0.82
30120	92856	94569	4.62E-94	0.87
30120	121665	122185	3.82E-06	0.96
30120	122172	123214	4.54E-71	0.77
30121	15974	16326	5.66E-06	0.88
30121	61654	61901	1.07E-04	0.91
30121	99947	100421	4.09E-05	1
30121	102210	102644	1.25E-06	0.86
30121	125429	125823	7.17E-12	0.66
30121	128504	128731	9.33E-06	0.77
30121	145782	145988	2.94E-05	1
30122	11149	11540	1.57E-36	0.98
30122	53507	54127	3.38E-11	0.95
30122	58329	58764	3.26E-09	1
30122	66162	66363	2.37E-15	0.69
30122	129770	130255	3.09E-16	0.65
30122	167977	168603	4.35E-65	0.95
30122	168952	169735	4.64E-37	0.89
30122	171403	171773	1.18E-13	0.9
30122	192532	193026	1.68E-43	0.96
30122	232090	232371	7.17E-19	0.89
30122	233856	234192	7.89E-21	0.94
30122	252264	252524	2.52E-66	0.93
30122	254648	255117	1.27E-28	0.96
30122	268723	269035	9.44E-17	0.91
30122	274842	275342	1.56E-15	0.74
30122	277143	277610	2.13E-20	0.79
30122	286634	287095	6.51E-84	0.95
30122	299844	300079	1.35E-25	0.85
30122	363722	364072	6.95E-12	0.81
30122	374378	375044	5.67E-52	0.9
30122	396927	397433	5.27E-34	0.77
30122	403495	403868	2.72E-59	0.93
30122	408366	408971	9.16E-69	0.94
30123	6172	6385	5.36E-07	0.84
30123	13595	13797	4.67E-05	0.86
30123	14443	14753	5.14E-14	0.82
30123	43549	43757	1.91E-07	0.84
30123	45942	46336	1.46E-09	0.91
30123	49360	49708	5.70E-07	0.85
30123	76106	76411	2.95E-11	0.87
30123	104703	105010	2.64E-14	0.76
30123	104817	105080	2.84E-17	0.79
30123	106657	107349	5.40E-16	0.87
30123	118331	118603	1.01E-08	0.82
30123	121929	122219	2.06E-12	0.75
30123	127734	128427	1.96E-42	0.79
30123	148156	148758	6.23E-09	0.94
30123	169306	169546	9.10E-07	0.8

30123	186665	187116	8.17E-08	0.8
30123	198790	199288	1.94E-08	0.79
30123	198829	199327	7.97E-09	0.81
30123	271198	271543	7.89E-09	0.98
30123	317031	317329	2.53E-06	1
30123	323272	324268	1.17E-13	0.92
30123	324467	324928	6.09E-05	0.93
30123	337228	337628	4.03E-07	1
30123	346919	347500	6.57E-05	0.91
30123	362924	363135	2.74E-03	0.81
30123	396952	397245	5.44E-12	0.82
30123	399249	399707	1.01E-08	0.89
30123	425442	425990	2.16E-23	0.79
30123	433343	433547	6.57E-04	0.83
30123	457735	458116	1.74E-11	0.77
30123	461173	461555	5.18E-07	0.71
30123	465098	465326	6.06E-09	0.86
30123	534891	535114	2.16E-04	0.94
30123	545944	546506	1.50E-05	0.84
30123	585149	585420	1.36E-06	0.86
30123	588130	588556	5.12E-10	0.88
30123	592892	593132	1.40E-07	0.84
30123	601043	601712	6.14E-07	0.86
30124	12608	12820	9.48E-10	0.81
30124	57457	57743	4.23E-10	0.97
30124	58955	59198	4.61E-13	0.97
30124	61268	61514	1.92E-05	0.87
30124	104211	104451	6.73E-10	0.76
30124	113075	113456	1.12E-07	0.81
30124	146904	147238	5.16E-17	0.83
30124	155365	155726	1.06E-14	0.83
30124	167439	167890	6.59E-09	0.8
30124	168548	168859	1.92E-10	0.86
30125	16143	16708	1.56E-21	0.94
30125	28773	29072	2.26E-16	0.98
30125	61085	61449	2.89E-09	0.88
30125	171934	172285	1.66E-36	0.86
30125	192326	193145	1.08E-08	0.92
30125	233679	234495	7.86E-54	0.94
30125	251358	252339	2.57E-19	0.75
30125	267207	267827	7.33E-32	0.93
30125	270074	270301	4.05E-30	0.93
30125	276044	276309	1.21E-17	0.94
30125	420922	421127	7.05E-10	0.8
30125	446222	446609	2.40E-34	0.93
30125	488515	488927	1.23E-06	0.97
30125	501464	501872	7.17E-80	0.96
30125	502351	502769	3.29E-23	0.95
30125	532704	533233	6.28E-36	0.87
30125	535103	535507	3.25E-37	0.92
30125	537329	537909	2.22E-35	0.94
30125	552883	553378	2.34E-35	0.9
30125	554821	556072	3.60E-71	0.95

30125	577479	577953	1.87E-06	0.9
30125	643934	644169	2.05E-30	0.94
30125	649535	649885	2.85E-16	0.82
30125	674590	675009	1.17E-10	0.78
30125	686684	686888	7.33E-04	0.84
30125	692026	692234	8.56E-11	0.88
30125	708123	708831	2.96E-16	0.94
30125	841250	841499	1.84E-04	0.94
30125	846171	846421	7.94E-07	0.91
30125	847305	847814	6.31E-18	0.85
30125	887905	888180	1.88E-05	1
30125	955923	956330	3.62E-27	0.9
30125	956980	957217	2.02E-13	0.75
30125	983399	983720	1.11E-03	1
30125	984051	984317	1.65E-03	1
30125	1004934	1005205	4.38E-18	0.98
30125	1127943	1128728	5.58E-49	0.92
30125	1134891	1135206	1.94E-39	0.82
30125	1176312	1177512	1.52E-73	0.9
30125	1183203	1183609	6.33E-16	0.85
30125	1184023	1184491	8.96E-29	0.97
30125	1187007	1187576	7.21E-24	0.82
30125	1292101	1292315	6.32E-11	0.98
30125	1314920	1315133	4.02E-09	0.87
30125	1315452	1315684	1.54E-04	0.89
30125	1317260	1317469	5.37E-04	0.8
30126	19695	19929	5.98E-12	0.97
30126	40860	41132	1.00E-05	0.92
30126	65680	65890	6.57E-11	0.95
30126	137950	138559	5.77E-08	0.91
30127	8727	9031	1.77E-03	0.76
30127	42194	42506	8.12E-05	0.87
30127	54916	55493	4.83E-05	0.94
30128	15933	16343	1.24E-15	0.81
30128	17252	17452	5.58E-05	0.78
30128	39071	39426	3.71E-10	1
30128	56959	57315	3.42E-32	0.97
30128	57846	58779	4.59E-29	0.85
30128	59149	59741	1.98E-36	0.83
30128	59982	60224	2.57E-21	0.89
30128	94582	95125	2.05E-41	0.67
30128	95396	96223	2.04E-44	0.9
30128	103029	103796	1.35E-36	0.85
30128	104158	104402	4.34E-40	0.92
30128	105778	106157	8.49E-35	0.94
30128	106524	106743	2.53E-40	0.88
30128	107036	107908	5.08E-48	0.65
30128	112118	112504	7.53E-13	0.89
30128	119049	119979	1.29E-36	0.8
30128	158929	159377	4.45E-12	0.74
30128	197973	199085	5.19E-47	0.78
30128	199637	200450	5.42E-32	0.9
30128	211785	212465	6.03E-58	0.9

30128	216898	218048	2.15E-37	0.89
30128	221436	222704	4.05E-35	0.73
30128	226558	226883	8.44E-13	0.81
30128	237507	238241	6.84E-73	0.95
30128	238605	238958	4.05E-44	0.89
30128	239185	240292	2.08E-57	0.92
30128	240584	240873	8.17E-17	0.84
30128	242742	244741	8.50E-60	0.72
30128	250466	250776	7.82E-22	0.82
30128	286369	286924	4.64E-20	0.78
30128	290385	290770	1.24E-12	0.88
30128	291780	292020	5.07E-13	0.79
30128	294478	294929	1.15E-09	0.64
30128	295563	295964	4.64E-29	0.93
30128	296952	298106	5.11E-41	0.89
30128	298354	298968	1.27E-46	0.8
30128	299289	300437	4.56E-104	0.9
30128	300676	301597	7.05E-59	0.94
30128	308942	310055	9.21E-42	0.62
30128	320444	320737	1.06E-28	0.9
30128	331491	332521	4.06E-48	0.63
30128	337139	337733	2.89E-32	0.81
30128	356165	356884	1.18E-19	0.68
30128	361603	362489	1.61E-63	0.89
30128	374093	375379	1.48E-102	0.89
30128	398001	398240	8.36E-12	0.78
30128	398799	399057	4.65E-31	0.87
30128	404603	405308	1.37E-27	0.84
30128	405549	406211	1.91E-34	0.91
30128	406423	406805	1.03E-24	0.92
30128	410336	410847	1.95E-25	0.84
30128	415833	416206	1.98E-18	0.8
30128	418856	419137	6.46E-34	0.94
30128	419985	420447	1.00E-13	0.8
30128	426267	426600	3.17E-10	0.85
30128	448562	448983	4.39E-26	0.87
30128	471064	471631	3.89E-12	0.83
30128	507835	509294	1.87E-37	0.68
30128	513963	514959	7.05E-74	0.74
30128	515185	516869	5.01E-122	0.6
30128	541428	541750	1.08E-39	0.74
30128	545893	546508	1.08E-31	0.89
30128	546973	547229	1.91E-17	0.89
30128	565367	566019	1.72E-53	0.83
30128	589855	590834	6.77E-79	0.91
30128	594126	594343	4.76E-36	0.96
30128	625039	625757	3.03E-34	0.7
30128	639774	640053	4.23E-14	0.82
30128	672123	672683	8.57E-31	0.69
30128	686520	687270	3.44E-37	0.8
30128	687501	687834	2.83E-05	0.79
30128	689611	690015	5.45E-16	0.78
30128	690948	691708	1.18E-32	0.77

30128	700764	701380	2.89E-24	0.7
30128	705168	706569	1.91E-91	0.69
30128	720733	721091	1.51E-07	0.7
30128	741673	741900	1.53E-08	0.75
30128	756658	756881	2.68E-12	0.85
30128	758876	759967	4.41E-48	0.8
30128	807484	807719	1.66E-27	0.91
30128	829178	829709	3.16E-23	0.87
30128	832804	833218	8.91E-24	0.73
30128	833619	834233	2.43E-26	0.71
30128	836412	837292	3.22E-29	0.61
30128	838106	838896	1.22E-68	0.76
30128	845191	846161	1.00E-53	0.74
30128	900019	900427	7.61E-15	0.75
30128	913753	914242	2.27E-18	0.81
30128	938331	940245	4.25E-71	0.77
30128	954384	954825	3.04E-18	0.77
30128	955089	956611	4.42E-98	0.8
30128	957271	957674	4.00E-27	0.64
30128	969796	970760	1.37E-120	0.88
30128	974066	975165	4.40E-32	0.71
30128	977864	978666	1.69E-38	0.79
30128	978892	979378	7.34E-38	0.83
30128	981368	981718	5.47E-20	0.86
30128	1010293	1010576	2.96E-22	0.88
30128	1029989	1030520	6.97E-20	0.82
30128	1059990	1060278	1.22E-13	0.88
30128	1079287	1079731	8.28E-81	0.95
30128	1082950	1083747	4.50E-64	0.82
30128	1102349	1103100	7.16E-21	0.8
30128	1103953	1104298	1.66E-23	0.81
30128	1105960	1106525	1.05E-38	0.91
30128	1130041	1130369	2.10E-23	0.83
30128	1131314	1133440	6.43E-174	0.91
30128	1134855	1135128	1.32E-22	0.9
30128	1139856	1140162	7.73E-17	0.83
30128	1143768	1144752	2.20E-47	0.92
30128	1148514	1149234	4.38E-26	0.81
30128	1223345	1223968	1.02E-40	0.87
30128	1230522	1231362	1.51E-56	0.79
30128	1247016	1247279	8.64E-21	0.73
30128	1261859	1262276	6.82E-26	0.8
30128	1270216	1270617	9.03E-23	0.63
30128	1283884	1284616	4.62E-27	0.78
30128	1285465	1285757	4.25E-14	0.81
30128	1286721	1286950	3.46E-12	0.76
30128	1287183	1287487	4.06E-11	0.79
30128	1287418	1287974	4.17E-21	0.81
30128	1290423	1290705	1.21E-21	0.74
30128	1291007	1291424	1.09E-46	0.88
30128	1292112	1292526	8.75E-52	0.9
30128	1316239	1316561	1.73E-23	0.83
30128	1333481	1334085	2.72E-51	0.84

30128	1356670	1356870	5.64E-13	0.81
30128	1406822	1407431	3.77E-10	0.8
30128	1436433	1437245	6.84E-97	0.84
30128	1437781	1438135	4.94E-60	0.87
30128	1438378	1438802	1.92E-69	0.89
30128	1439534	1440355	9.93E-105	0.89
30128	1458184	1458690	7.12E-28	0.94
30128	1458917	1459729	2.30E-38	0.84
30128	1487224	1487916	1.42E-57	0.87
30128	1516161	1516619	2.02E-36	0.93
30128	1517130	1518984	6.44E-124	0.86
30128	1534283	1534688	5.05E-10	0.63
30128	1546269	1547113	1.23E-24	0.84
30128	1551080	1551442	4.14E-21	0.82
30128	1568887	1569115	9.50E-35	0.95
30128	1572962	1574432	2.89E-52	0.81
30128	1581035	1581447	6.70E-30	0.68
30128	1583746	1584614	8.01E-22	0.64
30128	1600746	1600962	5.87E-25	0.78
30128	1611470	1611757	1.65E-13	0.77
30128	1612190	1612642	2.31E-42	0.74
30128	1622010	1622640	6.15E-120	0.86
30128	1627277	1628200	3.08E-28	0.82
30128	1630855	1631550	3.94E-43	0.86
30128	1633311	1634611	5.74E-145	0.89
30128	1663336	1663610	2.82E-18	0.68
30128	1670214	1670790	1.71E-22	0.77
30128	1679234	1679590	1.64E-35	0.92
30128	1679819	1680369	4.97E-24	0.9
30128	1684175	1686210	6.49E-130	0.8
30128	1695408	1696056	8.97E-25	0.78
30128	1696362	1696764	5.51E-24	0.84
30128	1716513	1717498	2.99E-90	0.77
30128	1718886	1719410	2.36E-70	0.75
30128	1720829	1722218	9.56E-138	0.93
30128	1722523	1723939	1.96E-138	0.93
30128	1724257	1724672	8.98E-68	0.99
30128	1725178	1725445	3.43E-30	0.8
30128	1745539	1745854	7.53E-24	0.94
30128	1757115	1758136	2.74E-61	0.9
30128	1768191	1768590	6.21E-22	0.93
30128	1776218	1777627	1.46E-84	0.63
30128	1782824	1783406	1.33E-29	0.75
30128	1787526	1787734	3.51E-22	0.89
30128	1793451	1793917	2.04E-39	0.77
30128	1796615	1798134	6.23E-46	0.6
30128	1859763	1860081	1.18E-17	0.81
30128	1884517	1885250	1.14E-40	0.91
30128	1885469	1885815	6.64E-13	0.71
30128	1907178	1909194	1.63E-138	0.85
30128	1917896	1918435	4.86E-69	0.92
30128	1942669	1943067	1.73E-27	0.78
30128	1943365	1943916	2.78E-20	0.74

30128	1952829	1953265	6.03E-17	0.7
30128	1966606	1967398	1.01E-62	0.84
30128	1967600	1969264	1.08E-71	0.77
30128	1984372	1985585	2.14E-54	0.87
30128	1985786	1986387	9.94E-25	0.86
30128	2003988	2004737	6.32E-115	0.91
30128	2004972	2005207	9.23E-87	0.92
30128	2025352	2025712	5.15E-20	0.62
30128	2043581	2044782	3.90E-66	0.8
30128	2045000	2046060	2.68E-51	0.81
30128	2062128	2062666	3.83E-18	0.63
30128	2065302	2067248	5.20E-110	0.88
30128	2076733	2078278	1.33E-77	0.76
30128	2079699	2080038	1.01E-54	0.66
30128	2080799	2081806	5.64E-52	0.87
30128	2082010	2083825	1.62E-101	0.87
30128	2112060	2112797	4.76E-26	0.77
30128	2161309	2161528	1.05E-27	0.84
30128	2161961	2162297	4.67E-23	0.78
30128	2173524	2173785	1.03E-13	0.62
30128	2188526	2188808	2.62E-13	0.61
30128	2189013	2190016	1.07E-72	0.87
30128	2194812	2196285	3.50E-89	0.83
30128	2223649	2224155	2.17E-37	0.89
30128	2240309	2240705	1.35E-23	0.82
30128	2246800	2247102	3.51E-03	0.75
30128	2308159	2308495	1.53E-11	0.86
30128	2320023	2320233	4.62E-16	0.77
30128	2354338	2354769	1.39E-14	0.66
30128	2356390	2356603	1.31E-17	0.83
30128	2382491	2383041	7.80E-32	0.88
30128	2405495	2406016	1.15E-10	0.79
30128	2427940	2429555	1.05E-72	0.63
30128	2430263	2431551	2.96E-59	0.63
30128	2446582	2447010	2.58E-28	0.89
30128	2447222	2448378	5.48E-87	0.91
30128	2451120	2451480	9.04E-31	0.9
30128	2452022	2452234	4.85E-25	0.86
30128	2469639	2470799	6.07E-57	0.84
30128	2479620	2480622	3.72E-56	0.72
30128	2481738	2482070	1.27E-34	0.9
30128	2498650	2500343	4.26E-77	0.65
30128	2500565	2502847	9.38E-277	0.82
30128	2504268	2504563	1.01E-14	0.76
30128	2512773	2513374	8.95E-27	0.74
30128	2576803	2577049	1.14E-28	0.77
30128	2588571	2589073	9.57E-24	0.79
30128	2614587	2615037	3.81E-24	0.8
30128	2656222	2657014	8.91E-23	0.71
30128	2674393	2674939	4.47E-22	0.87
30128	2676713	2678189	1.06E-52	0.82
30128	2688509	2689070	1.46E-20	0.92
30128	2704715	2706374	4.74E-68	0.6

30129	11546	12029	4.17E-10	0.79
30129	29185	29537	6.86E-27	0.96
30129	57169	57749	6.84E-27	0.79
30129	58317	58726	9.06E-12	0.79
30129	75425	76092	6.11E-25	0.7
30129	100474	102320	1.25E-64	0.82
30129	109968	110509	3.21E-57	0.95
30129	112152	112427	6.23E-20	0.84
30129	127835	128705	9.98E-55	0.72
30130	25784	26064	5.13E-15	0.82
30130	34197	34679	1.40E-31	0.82
30130	85556	85964	1.94E-18	0.74
30130	87122	87355	2.93E-75	0.63
30130	99999	100991	1.75E-34	0.84
30130	102045	102613	1.35E-30	0.69
30130	122339	123104	5.86E-31	0.84
30130	127147	128211	1.41E-57	0.6
30131	20169	20608	1.06E-23	0.68
30131	31669	32905	3.88E-28	0.82
30131	33777	34085	1.71E-33	0.91
30131	34318	35378	4.57E-53	0.86
30131	35678	37045	3.32E-56	0.86
30131	37999	39080	5.03E-51	0.91
30131	61729	62266	1.80E-12	0.68
30131	62754	63284	6.56E-25	0.97
30131	63914	64740	1.66E-31	0.9
30131	134830	135340	6.19E-28	0.88
30131	135586	135932	2.45E-35	0.79
30131	191194	191421	3.30E-10	0.67
30131	196113	197001	1.05E-36	0.87
30131	223797	224153	9.89E-08	0.66
30131	249074	249843	5.31E-25	0.72
30131	292547	292946	4.12E-12	0.75
30131	297349	297920	1.45E-30	0.8
30131	322163	323218	3.80E-57	0.81
30131	325048	325761	3.88E-46	0.76
30131	328022	328850	9.97E-30	0.75
30131	329831	330802	2.04E-63	0.91
30131	338797	339629	1.48E-68	0.89
30131	339925	340657	6.70E-38	0.85
30131	345385	345886	4.98E-20	0.82
30131	346447	347562	1.13E-47	0.92
30131	349098	349933	3.49E-37	0.89
30131	350879	351771	2.92E-25	0.89
30131	353928	355879	1.27E-82	0.77
30131	356814	357977	1.95E-46	0.72
30131	367462	368891	1.98E-79	0.89
30131	375045	375386	1.38E-23	0.84
30131	375642	376398	4.19E-39	0.85
30131	377151	377534	5.06E-19	0.9
30131	384377	384609	6.54E-12	0.6
30131	390405	391654	2.18E-44	0.9
30131	393156	393454	9.68E-34	0.91

30131	427591	427994	2.46E-13	0.7
30131	428208	429074	4.13E-43	0.85
30131	434850	435329	2.30E-44	0.87
30131	436148	436422	9.03E-12	0.81
30131	439743	441644	4.31E-89	0.82
30131	446963	447642	6.19E-32	0.8
30131	447082	447832	5.20E-39	0.81
30131	453183	453542	1.51E-12	0.82
30131	458146	458596	3.51E-30	0.8
30131	463819	464050	8.33E-18	0.86
30131	496551	496856	4.99E-30	0.97
30131	528434	528964	4.14E-29	0.83
30131	545947	546816	9.82E-81	0.95
30131	549407	549747	1.37E-56	0.73
30131	551290	551508	8.01E-44	0.83
30131	551776	552137	1.86E-28	0.87
30131	552896	553603	1.11E-25	0.84
30131	553928	554267	2.48E-19	0.88
30131	554473	555785	1.63E-68	0.92
30131	559792	560013	4.59E-30	0.9
30131	568071	569279	8.20E-80	0.76
30131	570191	570746	1.00E-30	0.85
30131	570966	571591	1.83E-20	0.86
30131	571851	572265	3.18E-26	0.84
30131	605300	605936	3.89E-32	0.81
30131	614472	614713	9.14E-07	0.76
30131	663998	664827	6.69E-56	0.77
30131	699225	700232	4.35E-59	0.93
30131	703429	705619	7.89E-137	0.86
30131	706488	707332	7.35E-32	0.83
30131	708818	709346	3.42E-25	0.94
30131	712750	713210	1.17E-12	0.64
30131	718929	720532	7.10E-61	0.74
30131	741221	742014	4.77E-78	0.95
30131	769255	770403	1.33E-41	0.92
30131	770942	771232	7.77E-13	0.91
30131	773849	774372	2.00E-17	0.84
30131	780230	780522	3.11E-44	0.92
30131	782376	782625	5.54E-20	0.95
30131	785515	786318	8.92E-32	0.85
30131	800312	801471	2.80E-64	0.86
30131	811403	811793	2.89E-29	0.89
30131	844659	845077	3.54E-46	0.87
30131	850521	851497	3.01E-45	0.65
30131	855272	855662	2.78E-37	0.73
30131	870385	871283	7.85E-118	0.86
30131	874032	876092	9.05E-246	0.79
30131	883837	884138	2.86E-19	0.88
30131	892521	893305	8.09E-34	0.89
30131	897761	898198	8.41E-06	0.72
30131	977572	978701	2.51E-32	0.83
30131	978939	979413	2.39E-13	0.83
30131	979622	980827	3.28E-65	0.73

30131	992988	994001	9.06E-32	0.83
30131	994259	994845	1.30E-17	0.81
30131	995444	996609	5.77E-150	0.91
30131	997245	998095	3.12E-84	0.93
30131	1013810	1014272	1.42E-41	0.86
30131	1048856	1049575	3.41E-57	0.89
30131	1050134	1050394	3.59E-38	0.95
30131	1050943	1051358	1.12E-33	0.87
30131	1067792	1069360	7.59E-177	0.86
30131	1069631	1070178	1.28E-95	0.9
30131	1070435	1070982	4.44E-73	0.96
30131	1071347	1071619	5.98E-21	0.91
30131	1073378	1074118	1.55E-56	0.84
30131	1113894	1114434	1.77E-37	0.94
30131	1115882	1116978	2.30E-28	0.78
30131	1125050	1126156	3.00E-80	0.64
30131	1145174	1145495	1.87E-12	0.78
30131	1145428	1145723	1.16E-19	0.82
30131	1152075	1152699	1.84E-44	0.91
30131	1158381	1159230	7.21E-28	0.83
30131	1177671	1178042	8.79E-15	0.65
30131	1212600	1213318	2.72E-59	0.74
30131	1218876	1219333	2.22E-34	0.92
30131	1222120	1222360	1.23E-22	0.78
30131	1224256	1225663	3.55E-91	0.84
30131	1225976	1226688	5.63E-26	0.75
30131	1237345	1238229	4.03E-23	0.67
30131	1241486	1242245	2.28E-35	0.78
30131	1246267	1246895	6.90E-36	0.81
30131	1247525	1248228	6.97E-30	0.79
30131	1260366	1260740	8.35E-23	0.92
30131	1265569	1266393	2.45E-23	0.69
30131	1275577	1275828	7.36E-09	0.76
30131	1292166	1292527	3.83E-17	0.84
30131	1309335	1309641	3.42E-15	0.85
30131	1309781	1310104	2.10E-13	0.68
30131	1310806	1311420	1.17E-51	0.83
30131	1314861	1315719	5.79E-47	0.73
30131	1318275	1318903	5.69E-20	0.7
30131	1320877	1321341	2.22E-43	0.95
30131	1321552	1322322	4.48E-29	0.8
30131	1323047	1323560	2.26E-17	0.66
30131	1323815	1324049	4.62E-28	0.93
30131	1326437	1327091	1.27E-40	0.94
30131	1332936	1333537	4.72E-64	0.89
30131	1355764	1357556	3.28E-61	0.78
30131	1372655	1373101	1.88E-19	0.65
30131	1373954	1374281	1.62E-10	0.77
30131	1397126	1399313	2.90E-73	0.73
30131	1402175	1403173	5.59E-38	0.81
30131	1431277	1431506	1.78E-13	0.83
30131	1431737	1432412	1.39E-36	0.96
30131	1433740	1434435	8.10E-24	0.9

30131	1434721	1434988	1.04E-21	0.8
30131	1449381	1449819	8.10E-12	0.77
30131	1466269	1466672	5.08E-15	0.78
30131	1487800	1488562	4.77E-50	0.87
30131	1502970	1503226	3.51E-31	0.78
30131	1517879	1518965	1.24E-59	0.78
30131	1520333	1520785	1.25E-21	0.84
30131	1521087	1521713	2.04E-39	0.89
30131	1524566	1524927	1.18E-26	0.87
30131	1528727	1530592	6.26E-66	0.86
30131	1551071	1554023	5.60E-191	0.87
30131	1554243	1555301	4.01E-75	0.86
30131	1558208	1559205	6.30E-49	0.85
30131	1562084	1562541	4.08E-53	0.89
30131	1576614	1577547	8.06E-48	0.81
30131	1577790	1578371	3.41E-30	0.78
30131	1580494	1580839	1.10E-22	0.84
30131	1584545	1585096	1.20E-22	0.93
30131	1608358	1609102	6.96E-30	0.8
30131	1614734	1615003	4.28E-13	0.7
30131	1615542	1616305	3.49E-30	0.81
30131	1634275	1634768	1.59E-05	0.81
30131	1641241	1641507	6.26E-05	0.92
30131	1691952	1692437	2.92E-38	0.91
30131	1692865	1693269	7.67E-18	0.85
30131	1693678	1694371	1.25E-26	0.76
30131	1703095	1703450	4.51E-52	0.68
30131	1722063	1722792	4.02E-95	0.93
30131	1723096	1723892	1.53E-126	0.91
30131	1758139	1758411	2.18E-12	0.79
30131	1761368	1762338	9.34E-68	0.69
30131	1773058	1775005	1.04E-55	0.83
30131	1775686	1776287	1.59E-89	0.91
30131	1799090	1799901	1.61E-25	0.82
30131	1803387	1803704	3.60E-16	0.8
30131	1806547	1806997	1.89E-29	0.87
30131	1820738	1821908	6.14E-52	0.64
30131	1832382	1832769	1.27E-42	0.84
30131	1833837	1835173	1.07E-53	0.61
30131	1838792	1839205	3.23E-19	0.7
30131	1852321	1852769	1.36E-06	0.72
30131	1876477	1876726	3.99E-19	0.89
30131	1881678	1882353	4.57E-40	0.83
30131	1886404	1887139	4.38E-59	0.85
30131	1921550	1922157	5.59E-30	0.77
30131	1929554	1930773	1.29E-35	0.71
30131	1934009	1935080	3.76E-51	0.79
30131	1937076	1937547	7.17E-49	0.84
30131	1939132	1939562	2.60E-32	0.86
30131	1940202	1940758	2.10E-20	0.81
30131	1941169	1941715	6.03E-20	0.86
30131	1943436	1943708	1.76E-23	0.86
30131	1947187	1947402	5.32E-29	0.94

30131	1960101	1960794	9.83E-29	0.88
30131	1982803	1983270	2.40E-21	0.79
30131	1982881	1983476	1.11E-23	0.8
30131	1985943	1986612	3.17E-35	0.88
30131	1986838	1987105	6.00E-27	0.92
30131	1987321	1987580	5.07E-28	0.86
30131	2009939	2010455	1.85E-21	0.78
30131	2047075	2047319	8.69E-14	0.78
30131	2054869	2055137	3.49E-05	0.96
30131	2057479	2058099	2.30E-11	0.92
30131	2077278	2078333	5.13E-45	0.85
30131	2078931	2079615	1.40E-45	0.68
30131	2118661	2119003	5.46E-24	0.8
30131	2144656	2145408	2.12E-33	0.66
30131	2145634	2146410	7.20E-47	0.91
30131	2148643	2149034	2.39E-17	0.83
30131	2149755	2150297	3.74E-18	0.87
30131	2150765	2151270	2.92E-29	0.87
30131	2166554	2166931	1.87E-26	0.86
30131	2197012	2197339	7.39E-08	0.67
30131	2211224	2211815	5.43E-21	0.76
30131	2215579	2216269	3.22E-25	0.82
30131	2216875	2219275	8.38E-66	0.8
30131	2221660	2223193	1.95E-76	0.75
30131	2224718	2225060	4.33E-23	0.81
30131	2225623	2226254	5.51E-25	0.78
30131	2252402	2252662	4.23E-43	0.73
30131	2252866	2254507	2.12E-40	0.68
30131	2271293	2271815	2.19E-28	0.66
30131	2272152	2272946	5.69E-122	0.89
30131	2278615	2279093	1.68E-23	0.86
30131	2282380	2282929	1.06E-65	0.76
30131	2296685	2297307	2.16E-17	0.82
30131	2319882	2321258	3.00E-48	0.8
30131	2330585	2330880	2.28E-10	0.84
30131	2353837	2354721	2.15E-39	0.83
30131	2370395	2370818	5.22E-22	0.87
30131	2390055	2391129	1.42E-57	0.85
30131	2392732	2392969	2.05E-08	0.8
30131	2407338	2407887	6.89E-32	0.76
30131	2451250	2451718	8.58E-26	0.92
30131	2452856	2453075	3.61E-31	0.84
30131	2453568	2453965	1.23E-17	0.86
30131	2463182	2464017	4.00E-32	0.78
30131	2463239	2464092	4.54E-40	0.85
30131	2466235	2466827	1.53E-50	0.86
30131	2471467	2471723	1.43E-19	0.82
30131	2473328	2473696	1.76E-20	0.83
30131	2477623	2478082	3.68E-38	0.79
30131	2478474	2478873	1.10E-35	0.85
30131	2497800	2498567	6.74E-31	0.64
30131	2499490	2499801	5.43E-25	0.67
30131	2502648	2503013	2.58E-36	0.89

30131	2531352	2531917	4.23E-45	0.89
30131	2532143	2532447	5.54E-46	0.85
30131	2551290	2551693	2.69E-16	0.82
30131	2564366	2565215	2.96E-86	0.84
30131	2565520	2566170	9.13E-93	0.97
30131	2593894	2594341	6.17E-18	0.78
30131	2594910	2595349	2.00E-18	0.82
30131	2595864	2596167	5.48E-24	0.75
30131	2600081	2600488	1.12E-42	0.77
30131	2602019	2602856	3.58E-22	0.85
30131	2608903	2609110	1.02E-31	0.92
30131	2625412	2625955	6.70E-42	0.75
30131	2627301	2629143	4.33E-61	0.76
30131	2633235	2634358	1.68E-93	0.77
30131	2634844	2635229	6.31E-29	0.82
30131	2637734	2638162	2.22E-55	0.72
30131	2643195	2643538	4.53E-08	0.75
30131	2643868	2644149	2.97E-29	0.9
30131	2645079	2645759	3.12E-67	0.91
30131	2654483	2654916	2.71E-26	0.78
30131	2664040	2664442	9.01E-40	0.89
30131	2664648	2664852	1.05E-07	0.89
30131	2682053	2682588	1.57E-60	0.84
30131	2686135	2686487	8.76E-17	0.78
30132	2631	2934	2.68E-07	0.87
30132	7267	7534	2.66E-09	0.86
30132	46321	46646	6.95E-05	0.61
30133	70369	70702	1.43E-20	0.94
30133	74790	75109	1.10E-53	0.97
30133	85999	86754	1.21E-36	0.93
30133	110779	111233	1.17E-28	0.9
30133	123315	123716	4.71E-08	0.8
30133	158111	159194	1.02E-23	0.67
30134	4769	5040	9.29E-04	0.81
30134	11885	12182	4.80E-06	0.81
30134	13654	13936	3.58E-12	0.85
30134	48507	48983	1.07E-32	0.92
30134	59894	60621	3.93E-35	0.81
30134	124600	125188	1.06E-12	0.91
30134	165011	165488	1.41E-07	0.87
30134	180200	180404	2.31E-06	0.78
30134	213554	213754	2.58E-05	0.7
30134	270535	271256	1.39E-18	0.89
30135	49730	50884	1.15E-68	0.78
30135	100310	100863	1.05E-18	0.93
30135	114170	114702	4.70E-06	0.97
30135	144351	144556	8.70E-06	0.76
30135	180173	181700	3.19E-75	0.93
30135	183702	184085	6.38E-12	0.91
30135	222525	222975	1.38E-25	0.93
30135	234288	235792	6.39E-142	0.95
30135	263218	263684	9.47E-05	0.75
30136	6623	6824	1.42E-11	0.8

30136	7767	8227	4.85E-37	0.89
30136	9235	9614	9.20E-20	0.82
30136	16774	17328	1.13E-19	0.63
30136	26763	27131	2.01E-33	0.95
30136	44651	45034	2.76E-17	0.94
30136	88619	88907	4.97E-18	0.61
30136	99396	99835	2.58E-45	0.93
30136	100081	100514	4.69E-44	0.9
30136	121335	121537	9.45E-19	0.89
30136	141020	141980	4.19E-35	0.93
30136	171412	171736	3.06E-19	0.97
30136	172114	172925	5.06E-67	0.96
30136	194327	195049	1.87E-103	0.91
30136	196451	197139	2.68E-36	0.73
30136	217695	218071	8.40E-23	0.77
30136	222023	222853	1.62E-64	0.94
30136	257344	257718	6.38E-18	0.94
30136	264099	264384	3.85E-46	0.86
30136	342817	343498	1.31E-06	0.9
30136	399356	399817	8.86E-16	0.88
30136	420015	420237	2.14E-07	0.81
30136	447744	448172	2.95E-97	0.93
30136	457673	458391	9.11E-33	0.76
30136	479232	479577	4.19E-36	0.94
30136	499740	500452	2.63E-97	0.91
30136	501501	502343	1.34E-45	0.67
30136	535613	535838	9.86E-06	0.92
30136	566043	566671	1.33E-31	0.74
30136	619618	620634	3.16E-24	0.81
30136	626774	627563	4.82E-62	0.92
30136	633521	633825	2.07E-76	0.94
30136	643068	643581	9.62E-22	0.84
30136	646213	646582	2.48E-45	0.95
30136	647124	647561	1.11E-21	0.7
30136	651992	652947	2.16E-79	0.82
30136	662124	663048	1.28E-56	0.81
30136	664220	665000	2.65E-70	0.89
30136	667541	667885	3.48E-29	0.85
30136	672224	672521	3.38E-18	0.73
30136	672791	673093	1.92E-27	0.69
30136	674183	674548	4.26E-12	0.78
30136	691999	692734	1.22E-31	0.84
30136	693022	693222	1.86E-21	0.87
30136	702862	703249	2.54E-10	0.92
30136	725082	725426	2.23E-27	0.96
30136	738892	739424	6.49E-14	0.89
30136	746791	747192	5.44E-21	0.88
30136	766090	766696	4.93E-04	0.71
30136	768400	769121	2.22E-11	0.78
30136	881447	881752	7.76E-34	0.95
30136	882784	883189	6.22E-40	0.98
30136	884338	884737	2.95E-54	0.98
30136	888901	889187	1.95E-41	0.88

30136	893183	893619	7.77E-50	0.96
30136	935632	936162	8.30E-45	0.97
30136	978275	979026	6.38E-102	0.94
30136	1018747	1018972	4.09E-12	0.78
30136	1038455	1038738	9.84E-09	0.82
30136	1062092	1062321	5.47E-10	0.74
30136	1073780	1074651	1.47E-105	0.89
30136	1075976	1076865	4.33E-157	0.97
30136	1092086	1093482	3.70E-80	0.73
30136	1093708	1094501	5.72E-17	0.89
30136	1095801	1097859	4.03E-49	0.73
30136	1098826	1099601	8.51E-47	0.92
30136	1100043	1100944	2.05E-59	0.87
30136	1102563	1103433	6.18E-54	0.85
30136	1103665	1103873	2.24E-12	0.9
30136	1104177	1104666	3.17E-28	0.91
30136	1106449	1106817	5.46E-29	0.95
30136	1107105	1108436	3.40E-81	0.74
30136	1133849	1134517	9.08E-52	0.88
30136	1141378	1141812	4.74E-32	0.86
30136	1142293	1142598	1.71E-20	0.87
30136	1145597	1145899	3.50E-40	0.95
30136	1146203	1146548	2.19E-38	0.94
30136	1148024	1148524	4.36E-47	0.87
30136	1149146	1150007	4.31E-36	0.91
30136	1156504	1156969	3.07E-27	0.94
30136	1157415	1157993	4.06E-38	0.96
30136	1184263	1184612	1.20E-18	0.71
30137	44586	44792	1.20E-07	0.83
30137	56733	57542	5.34E-36	0.75
30137	73448	73905	2.69E-17	0.67
30137	93023	93439	5.45E-06	0.96
30137	136017	136647	3.92E-32	0.8
30137	163563	163802	1.93E-55	0.97
30137	167012	167446	6.99E-18	0.74
30137	171051	171355	3.36E-09	0.7
30137	174287	175674	2.56E-97	0.94
30137	230875	231948	3.35E-31	0.83
30137	248646	249432	7.83E-33	0.8
30137	252766	253135	1.23E-43	0.77
30137	253523	253881	7.25E-09	0.8
30137	265658	266059	1.66E-24	0.93
30137	267651	267951	5.66E-38	0.95
30137	268244	268544	2.43E-20	0.93
30137	268764	269171	1.24E-18	0.88
30137	283727	284031	1.26E-14	0.8
30137	290539	290879	1.03E-18	0.94
30137	323538	324105	1.16E-33	0.92
30137	325378	325851	6.67E-24	0.86
30137	326836	327205	8.55E-35	0.94
30137	328717	328991	1.98E-16	0.88
30138	10495	10827	3.45E-17	0.82
30138	11065	12028	3.55E-53	0.88

30138	40697	40962	1.04E-10	0.75
30138	41779	42643	2.79E-55	0.92
30138	42953	44625	5.01E-98	0.84
30138	53040	53370	1.15E-12	0.81
30138	69023	69725	2.94E-42	0.88
30138	72517	74546	3.53E-75	0.74
30138	74777	75589	9.91E-56	0.89
30138	87072	87304	2.15E-14	0.81
30138	106968	107240	9.38E-12	0.6
30138	113671	113996	4.13E-10	0.83
30138	120568	120834	7.02E-27	0.89
30138	122019	122304	2.82E-44	0.93
30138	131520	132177	1.52E-08	0.89
30138	152409	153791	1.67E-34	0.73
30138	182686	183351	1.21E-52	0.71
30138	215318	215628	1.73E-12	0.81
30138	227938	229973	4.92E-74	0.78
30138	276588	277708	8.71E-47	0.79
30138	295150	295479	1.17E-23	0.89
30138	300023	300495	1.94E-30	0.9
30138	324104	324487	3.71E-57	0.96
30138	325100	325388	6.54E-27	0.89
30138	329236	329952	2.01E-30	0.78
30138	352376	352718	2.20E-17	0.8
30138	365364	365974	3.73E-30	0.77
30138	388687	388951	8.62E-16	0.91
30138	390134	390544	8.34E-21	0.72
30138	394753	394977	1.17E-09	0.62
30138	431268	431849	4.34E-22	0.76
30138	437116	438899	7.59E-81	0.78
30138	452091	452348	6.68E-18	0.84
30138	455377	455780	4.62E-21	0.77
30138	464658	465502	1.05E-40	0.78
30138	465902	466307	1.56E-15	0.79
30138	466945	468010	2.89E-86	0.9
30138	491454	491712	1.94E-24	0.77
30138	491965	492491	2.17E-29	0.91
30138	502749	503745	3.17E-60	0.84
30138	509739	511324	6.12E-53	0.68
30138	511538	512337	8.75E-39	0.71
30138	527009	527892	9.36E-64	0.64
30138	528435	528883	9.56E-51	0.89
30138	533121	533771	2.96E-27	0.89
30138	535586	537378	1.49E-40	0.73
30138	555585	555812	2.10E-16	0.95
30138	567102	567371	5.36E-33	0.7
30138	568422	569091	3.15E-61	0.91
30138	572276	573319	2.08E-93	0.69
30138	616273	617140	2.26E-56	0.76
30138	669254	669457	2.23E-49	0.77
30138	681507	681828	1.66E-29	0.92
30138	685154	687276	6.07E-78	0.76
30138	753214	753588	1.99E-26	0.65

30138	787913	788315	1.36E-13	0.82
30138	797619	797986	2.50E-18	0.81
30138	861261	861618	1.32E-25	0.82
30138	904655	905086	2.23E-23	0.84
30138	906882	907938	1.55E-22	0.62
30138	910836	911095	4.37E-25	0.92
30138	917517	918525	2.22E-36	0.69
30138	935375	935770	2.03E-66	0.92
30138	944823	945260	1.25E-83	0.92
30138	946623	947427	4.72E-55	0.89
30138	984680	985293	9.91E-37	0.81
30138	1009623	1009946	2.11E-67	0.81
30138	1010211	1010887	4.81E-54	0.81
30138	1014676	1015115	8.41E-31	0.87
30138	1034284	1034816	9.08E-32	0.81
30138	1038456	1039413	8.32E-47	0.87
30138	1048822	1049177	9.28E-18	0.9
30138	1050688	1051125	6.08E-31	0.89
30138	1053064	1053275	4.34E-11	0.82
30138	1065456	1065949	1.27E-22	0.96
30138	1066161	1066440	5.95E-35	0.72
30138	1066866	1067316	2.77E-44	0.9
30138	1067831	1068302	1.10E-21	0.79
30138	1105987	1106335	1.07E-07	0.82
30138	1109064	1109510	4.81E-26	0.8
30138	1122362	1122610	4.26E-21	0.81
30138	1124523	1124958	1.94E-25	0.78
30138	1143111	1143459	1.55E-16	0.79
30138	1143784	1144253	2.64E-27	0.77
30138	1147515	1148216	2.50E-20	0.71
30138	1154931	1155463	1.82E-32	0.83
30138	1157930	1158215	6.03E-18	0.81
30138	1161596	1162689	1.83E-88	0.87
30138	1163358	1164868	6.17E-84	0.86
30138	1171974	1172226	1.23E-15	0.78
30138	1190039	1190250	6.44E-08	0.84
30138	1234794	1235562	1.94E-28	0.85
30138	1235803	1237010	2.07E-55	0.8
30138	1241301	1241768	6.63E-25	0.65
30138	1246134	1247561	1.11E-64	0.83
30138	1250258	1250611	1.29E-19	0.78
30138	1254161	1254595	5.45E-30	0.83
30138	1298662	1299830	1.04E-42	0.75
30138	1300395	1301094	3.08E-49	0.89
30138	1317420	1317906	9.82E-39	0.71
30138	1321621	1321855	9.94E-11	0.78
30138	1324107	1324842	2.41E-21	0.82
30138	1324474	1324893	7.61E-15	0.8
30138	1326952	1327546	4.21E-70	0.85
30138	1330845	1331427	1.63E-17	0.85
30138	1340605	1340861	1.25E-10	0.67
30138	1365771	1366417	6.16E-09	0.61
30138	1373166	1374203	1.52E-55	0.79

30138	1374783	1375524	8.59E-35	0.63
30138	1377276	1377812	2.55E-10	0.78
30138	1382271	1382588	4.50E-37	0.82
30138	1387044	1387361	7.17E-33	0.76
30138	1413022	1414164	2.50E-35	0.79
30138	1423686	1424113	4.86E-22	0.73
30138	1424959	1425803	1.58E-98	0.86
30138	1426630	1427004	4.90E-30	0.73
30138	1466768	1467103	4.18E-26	0.93
30138	1470869	1471220	3.20E-14	0.91
30138	1471530	1472575	1.16E-72	0.84
30138	1490006	1490362	1.05E-26	0.84
30138	1495019	1495697	1.34E-61	0.92
30138	1518319	1518542	7.33E-21	0.87
30138	1520195	1520660	3.47E-29	0.81
30138	1525582	1526333	6.82E-23	0.67
30138	1526562	1527033	4.05E-22	0.82
30138	1529612	1529963	3.79E-07	0.69
30138	1569400	1570732	2.00E-51	0.68
30138	1608549	1608875	7.14E-34	0.93
30138	1609165	1609911	1.49E-54	0.91
30138	1628527	1629271	5.26E-26	0.88
30138	1629603	1630687	1.90E-69	0.78
30138	1657848	1658873	1.11E-67	0.72
30138	1660907	1661163	1.53E-31	0.8
30138	1681555	1682143	5.57E-23	0.86
30138	1683174	1684425	3.22E-60	0.8
30138	1686759	1686987	3.18E-14	0.98
30139	2748	3194	1.12E-03	0.88
30139	7798	8111	2.26E-05	1
30139	49350	49814	7.86E-07	0.83
30139	49370	49885	1.29E-06	0.8
30140	8437	8683	6.26E-26	0.97
30140	39873	40359	1.31E-06	1
30140	119695	120034	1.54E-15	0.83
30140	285815	286099	7.27E-23	0.96
30140	290614	290990	2.30E-25	0.87
30140	291462	291737	1.46E-06	0.68
30140	329908	330133	2.29E-11	0.89
30140	351745	352201	1.24E-12	0.93
30140	354198	354557	2.11E-11	0.97
30140	401658	402696	7.61E-48	0.61
30140	404237	405152	2.44E-78	0.92
30140	555356	556385	1.57E-13	0.94
30140	629144	630419	6.48E-87	0.94
30140	630661	631037	1.02E-30	0.98
30140	643812	645314	3.47E-290	0.95
30140	646160	647009	7.59E-156	0.93
30140	705649	706029	1.98E-05	0.97
30140	706494	706939	1.21E-10	0.91
30140	834446	834722	8.25E-32	0.92
30140	859153	859395	5.22E-12	0.8
30140	862194	862999	7.94E-46	0.96

30140	868006	868399	2.61E-06	0.9
30140	869700	869953	2.36E-04	0.79
30140	890969	891735	5.00E-06	0.94
30140	1056353	1056588	2.78E-06	0.96
30140	1197178	1197586	5.16E-07	0.98
30140	1280109	1280387	1.81E-05	0.88
30141	44411	45035	4.83E-21	0.89
30141	60308	60628	2.90E-07	0.79
30141	103250	103997	4.92E-62	0.91
30141	146631	147049	6.38E-04	1
30141	244889	245321	9.42E-25	0.88
30141	255459	255940	3.04E-06	0.96
30141	255714	255973	8.65E-05	1
30141	261235	261448	2.34E-14	0.86
30141	262368	262976	2.93E-16	0.82
30141	267486	267892	1.84E-08	0.8
30141	278654	279086	8.15E-17	0.9
30142	5509	6051	2.65E-37	0.8
30142	21305	22481	4.02E-44	0.66
30142	22720	23504	6.09E-48	0.8
30142	29994	30462	3.11E-24	0.88
30142	48955	49357	1.44E-15	0.84
30142	68100	68701	2.93E-12	0.87
30142	69080	70489	1.24E-59	0.83
30142	75702	76956	4.68E-35	0.79
30142	79485	79874	4.31E-72	0.91
30142	81970	82188	9.29E-45	0.86
30142	95753	95957	2.98E-17	0.82
30142	96393	96719	7.00E-12	0.77
30142	100213	101483	1.90E-62	0.88
30142	102350	103383	4.27E-59	0.81
30142	108038	109754	5.56E-74	0.87
30142	126920	127377	1.13E-07	0.61
30142	129301	129727	1.22E-10	0.88
30142	131597	132055	3.52E-30	0.76
30142	141836	142701	1.76E-27	0.79
30142	145101	145522	2.31E-06	0.91
30142	147397	147963	5.81E-18	0.83
30142	150913	151122	1.44E-08	0.91
30142	153811	154237	9.26E-20	0.9
30142	155822	156358	1.96E-34	0.85
30142	156586	157619	4.49E-48	0.79
30142	176498	177264	4.42E-35	0.82
30142	177889	178722	1.27E-25	0.84
30142	180908	181450	1.90E-26	0.66
30142	182197	182590	5.15E-46	0.77
30142	196779	196983	9.27E-09	0.95
30142	213159	213420	4.42E-12	0.76
30142	213954	214532	1.20E-33	0.8
30142	219620	219824	9.18E-09	0.82
30142	260959	261460	3.28E-25	0.71
30142	265015	265236	4.73E-16	0.88
30142	279928	280478	2.76E-13	0.88

30142	285579	286425	1.22E-25	0.86
30142	288047	288616	7.02E-27	0.9
30142	290475	290913	4.32E-24	0.87
30142	293261	293791	6.55E-21	0.82
30142	308029	309094	3.66E-29	0.83
30142	309493	311047	3.50E-51	0.91
30142	350174	350433	1.10E-12	0.63
30142	375874	376144	1.38E-27	0.93
30143	1636	2522	1.85E-49	0.78
30143	5860	6220	3.30E-07	0.81
30143	11526	12382	1.76E-47	0.79
30143	12750	13538	1.48E-61	0.86
30143	14780	16555	2.67E-51	0.83
30143	62327	62610	9.75E-09	0.7
30143	72005	72512	5.09E-42	0.87
30143	73774	74822	6.01E-62	0.84
30143	101119	101890	1.75E-27	0.8
30143	137599	137943	2.02E-18	0.76
30143	164240	164571	2.43E-21	0.88
30143	168228	168640	1.14E-46	0.78
30143	169548	169987	1.36E-29	0.87
30143	184241	184844	7.75E-24	0.8
30143	198743	199499	1.67E-10	0.77
30143	210303	210615	1.17E-13	0.83
30143	210870	211312	1.21E-17	0.82
30143	241133	241477	1.41E-15	0.75
30143	259375	260212	2.51E-65	0.86
30143	271026	271721	8.10E-36	0.7
30143	276411	276795	1.53E-20	0.81
30143	286352	287106	1.84E-26	0.77
30143	288269	288741	1.01E-16	0.8
30143	296186	296980	1.55E-42	0.68
30143	298917	299301	7.58E-30	0.77
30143	302981	303446	2.66E-37	0.83
30143	303674	303946	2.86E-18	0.84
30143	321016	321290	4.98E-19	0.7
30143	321787	322198	5.91E-20	0.8
30143	322438	322894	3.33E-32	0.83
30143	325406	325823	5.54E-26	0.82
30143	341360	341808	5.66E-07	0.96
30143	367429	368072	3.48E-37	0.85
30143	368297	368999	1.18E-44	0.88
30143	377166	377577	6.06E-18	0.78
30143	378684	378921	6.31E-09	0.78
30143	379532	380235	5.66E-10	0.81
30143	403038	403643	2.46E-28	0.83
30143	404249	405626	1.29E-70	0.74
30143	457805	458491	1.91E-10	0.68
30143	488864	489241	4.00E-47	0.9
30144	18194	18504	2.28E-04	0.75
30144	22252	22499	4.28E-05	0.87
30144	100769	101034	2.52E-21	0.87
30144	106686	107393	1.77E-04	0.62

30145	117306	117578	1.47E-06	0.88
30145	122801	123022	2.05E-05	0.91
30146	22009	23774	4.11E-43	0.7
30146	30636	31025	2.27E-04	0.84
30146	44504	45240	7.86E-30	0.82
30146	65589	66425	2.84E-48	0.8
30146	89945	90208	3.55E-27	0.86
30146	92285	93482	3.93E-73	0.81
30146	102435	102735	1.39E-14	0.81
30146	103344	104422	4.38E-24	0.73
30146	125212	125849	5.53E-43	0.89
30146	133976	134475	6.58E-05	0.96
30146	157236	157462	1.75E-10	0.79
30146	214584	215048	7.23E-29	0.77
30146	268078	268566	7.73E-50	0.93
30146	269536	270155	1.13E-109	0.94
30146	270637	271323	2.76E-35	0.92
30146	377543	377891	1.18E-22	0.77
30146	436177	436558	1.81E-22	0.91
30146	494846	495688	7.79E-62	0.77
30146	495920	498068	1.43E-168	0.86
30146	504853	505793	9.40E-68	0.95
30146	530777	531172	6.27E-21	0.65
30146	545073	545507	2.10E-18	0.79
30146	569287	569914	7.36E-40	0.89
30146	570154	570366	2.23E-16	0.82
30146	582064	582963	1.58E-47	0.88
30146	622539	623755	2.06E-40	0.79
30146	624961	625523	2.89E-61	0.94
30146	731088	731854	2.82E-29	0.74
30146	813731	814216	1.42E-20	0.88
30146	860324	861507	2.29E-61	0.86
30146	875096	875330	3.42E-35	0.91
30146	876100	876760	1.01E-57	0.84
30146	881794	882906	4.44E-42	0.69
30146	884985	886011	5.64E-51	0.87
30146	898560	898934	7.46E-27	0.93
30146	912816	913806	1.13E-35	0.63
30146	940853	941980	8.91E-50	0.66
30146	943739	944007	3.36E-30	0.9
30146	977906	978157	1.82E-11	0.71
30146	1004934	1005420	6.30E-26	0.81
30146	1005055	1005899	1.75E-29	0.81
30146	1016421	1016672	3.67E-07	0.72
30146	1016867	1017538	3.09E-24	0.79
30146	1046113	1047600	7.62E-50	0.81
30146	1062273	1063168	1.71E-110	0.9
30146	1102441	1102830	1.44E-55	0.92
30146	1135670	1135939	4.83E-19	0.8
30146	1152259	1152463	1.83E-10	0.85
30146	1153098	1154714	6.49E-109	0.9
30146	1155445	1155806	4.31E-20	0.85
30146	1171178	1171619	1.02E-19	0.76

30146	1212750	1213290	3.03E-62	0.88
30146	1216564	1217127	4.93E-15	0.8
30146	1220850	1221143	4.15E-22	0.63
30146	1242335	1242880	3.96E-30	0.84
30146	1243254	1244971	1.80E-75	0.85
30146	1245173	1245476	1.48E-18	0.61
30146	1316915	1317286	4.98E-53	0.9
30146	1321528	1322018	3.31E-30	0.79
30146	1335222	1335459	2.19E-21	0.65
30147	10558	10795	4.06E-10	0.79
30147	12398	13182	1.95E-40	0.85
30147	14234	14891	2.34E-28	0.85
30147	15118	15581	1.82E-23	0.88
30147	15841	17203	1.08E-56	0.8
30147	46885	47401	2.87E-14	0.79
30147	69767	70149	6.21E-24	0.91
30147	71210	71920	9.62E-50	0.9
30147	93140	94457	3.52E-87	0.74
30147	124975	125488	4.75E-50	0.64
30147	139747	140546	2.48E-37	0.89
30147	145734	146070	1.84E-13	0.75
30147	146396	147423	5.22E-28	0.74
30147	170767	171089	8.01E-13	0.9
30147	175607	176545	3.67E-38	0.84
30147	179987	180297	1.15E-13	0.91
30147	181308	181890	1.18E-13	0.77
30147	203433	203907	8.82E-19	0.7
30147	327599	327800	7.60E-34	0.97
30147	340487	340911	1.39E-28	0.88
30147	383914	386405	1.07E-96	0.74
30147	416269	417682	2.62E-71	0.8
30147	427645	428338	3.04E-33	0.8
30147	428946	429213	2.10E-18	0.76
30147	431794	432881	1.39E-53	0.76
30147	433095	433459	2.90E-25	0.72
30147	436866	438283	4.40E-64	0.88
30147	478001	478925	2.42E-31	0.8
30147	516281	516920	7.68E-45	0.81
30147	517260	517953	3.39E-59	0.76
30147	533430	533669	2.04E-52	0.92
30147	534784	535252	1.03E-34	0.93
30147	535594	535957	5.52E-16	0.7
30147	536512	537552	3.22E-109	0.91
30147	564996	565317	3.96E-09	0.18
30147	635778	638722	1.15E-302	0.89
30147	668216	668684	1.25E-21	0.81
30147	668904	669258	1.03E-20	0.81
30147	672526	672908	7.83E-24	0.89
30147	673229	673457	4.52E-24	0.92
30147	674681	674978	5.23E-20	0.73
30147	708084	708545	9.57E-22	0.86
30147	708798	709635	1.52E-36	0.87
30147	711347	711654	3.28E-34	0.97

30147	726641	727291	1.94E-19	0.74
30147	762286	762850	1.79E-17	0.84
30147	763103	763478	3.21E-31	0.86
30147	766444	768234	4.71E-64	0.85
30147	768782	769008	1.55E-14	0.88
30147	770529	771242	1.39E-31	0.9
30147	772017	772301	1.99E-22	0.8
30147	775044	776726	8.37E-64	0.78
30147	783005	783244	3.18E-18	0.73
30147	784267	785568	2.23E-144	0.7
30147	790956	791466	2.61E-21	0.74
30147	792110	792624	4.14E-27	0.84
30147	808735	809198	4.42E-13	0.88
30147	809454	810165	4.17E-36	0.9
30147	825447	825760	6.36E-10	0.72
30147	866270	866490	1.15E-19	0.77
30147	888890	889258	1.15E-35	0.91
30147	902389	902991	1.09E-30	0.77
30147	922003	922757	2.73E-52	0.84
30147	923055	923709	2.48E-45	0.93
30147	924110	925250	1.07E-45	0.78
30147	985773	986219	4.28E-16	0.73
30147	988064	988429	1.56E-75	0.89
30147	998112	998360	6.12E-14	0.81
30147	1023292	1023525	2.27E-21	0.78
30147	1026757	1027074	5.77E-45	0.91
30147	1027363	1027653	1.11E-34	0.9
30147	1035919	1036268	2.97E-21	0.75
30147	1037075	1037600	2.14E-18	0.78
30147	1049984	1050427	1.97E-34	0.87
30147	1057175	1057625	3.86E-28	0.87
30147	1058073	1058349	9.51E-13	0.92
30147	1068116	1068318	1.22E-05	0.95
30147	1088211	1089229	5.67E-38	0.85
30147	1089492	1089781	3.20E-21	0.86
30147	1090006	1090596	7.24E-28	0.8
30147	1098085	1098474	1.14E-15	0.86
30147	1100778	1101191	3.95E-17	0.85
30147	1132283	1132767	4.39E-39	0.89
30147	1133526	1133798	2.33E-10	0.74
30147	1140948	1142464	1.03E-52	0.63
30147	1143101	1143740	3.25E-22	0.85
30147	1145243	1145493	8.04E-23	0.98
30147	1146461	1147234	2.19E-40	0.89
30147	1147759	1148420	4.16E-52	0.94
30147	1149041	1149424	3.06E-15	0.91
30147	1151449	1151930	7.59E-30	0.87
30147	1152660	1153251	1.07E-15	0.8
30147	1191114	1191662	4.29E-27	0.92
30147	1217202	1218086	4.39E-37	0.84
30147	1253431	1253668	4.94E-21	0.82
30147	1264066	1264382	4.02E-16	0.88
30147	1276455	1276887	6.40E-20	0.81

30147	1321412	1321745	7.23E-52	0.81
30147	1326568	1326841	3.06E-23	0.83
30147	1331582	1331972	9.10E-11	0.82
30147	1331981	1332243	2.07E-08	0.78
30147	1332003	1332260	8.18E-08	0.78
30147	1335516	1335945	2.14E-41	0.9
30147	1339267	1339818	1.86E-39	0.91
30147	1345719	1346125	6.65E-45	0.71
30147	1351047	1351364	1.30E-28	0.83
30147	1351702	1351902	1.81E-14	0.93
30147	1353148	1353586	1.82E-32	0.94
30147	1353890	1355226	5.29E-51	0.82
30147	1360772	1361182	5.44E-44	0.63
30147	1365279	1365639	6.91E-13	0.82
30147	1368325	1368905	1.50E-23	0.8
30147	1379287	1379811	2.20E-16	0.94
30147	1421832	1422389	2.35E-34	0.79
30147	1426559	1426769	2.94E-31	0.77
30147	1447930	1448483	3.95E-63	0.8
30147	1461829	1463327	2.51E-157	0.86
30147	1463587	1464972	8.10E-174	0.92
30147	1478261	1478510	1.96E-20	0.75
30147	1479499	1480099	4.19E-43	0.79
30147	1482079	1482855	8.30E-42	0.91
30147	1483920	1484131	4.79E-18	0.9
30147	1486555	1486898	1.54E-16	0.84
30147	1497822	1498390	1.57E-29	0.88
30147	1512104	1513141	3.99E-40	0.8
30147	1517225	1517618	1.18E-11	0.79
30147	1521374	1522442	4.06E-26	0.74
30147	1555209	1555837	2.13E-23	0.68
30147	1566935	1567746	1.95E-11	0.8
30147	1572727	1574957	4.47E-72	0.72
30147	1581206	1581627	1.86E-16	0.75
30147	1582387	1582912	4.26E-27	0.79
30147	1600654	1601310	1.48E-25	0.79
30147	1616902	1617295	2.92E-19	0.79
30147	1641141	1641575	9.49E-19	0.66
30147	1641936	1642783	4.68E-62	0.89
30147	1643904	1644915	7.98E-26	0.72
30147	1707239	1707965	8.61E-15	0.64
30147	1711779	1711999	2.17E-18	0.77
30147	1712302	1713150	1.87E-88	0.95
30147	1713839	1714095	5.58E-20	0.68
30147	1716195	1716725	4.54E-46	0.93
30147	1732216	1732512	9.33E-18	0.76
30147	1783574	1783899	1.32E-20	0.87
30147	1798257	1798563	1.47E-26	0.84
30147	1798799	1802457	1.75E-148	0.81
30147	1825386	1825874	1.64E-20	0.78
30147	1826245	1826629	1.78E-16	0.78
30147	1836523	1837123	4.06E-36	0.75
30147	1843067	1843465	2.05E-10	0.8

30147	1848142	1848518	1.33E-23	0.7
30147	1861032	1861861	1.50E-40	0.85
30147	1872513	1872948	2.54E-22	0.95
30147	1873231	1874565	1.29E-86	0.87
30147	1914883	1915326	2.31E-16	0.83
30147	1949088	1950306	2.17E-54	0.78
30147	1973707	1974051	2.81E-14	0.82
30147	2005892	2006176	1.31E-09	0.81
30147	2020913	2021534	9.83E-11	0.62
30147	2049821	2050745	5.47E-43	0.81
30147	2074151	2074831	6.01E-59	0.91
30147	2075434	2075792	1.90E-56	0.95
30147	2105947	2106505	2.19E-39	0.94
30147	2107302	2107554	4.93E-23	0.86
30147	2108016	2108677	1.58E-09	0.82
30147	2118164	2118686	5.39E-29	0.77
30147	2127766	2128070	3.56E-23	0.84
30147	2168295	2168633	1.06E-35	0.93
30147	2170206	2171157	7.46E-38	0.89
30147	2191012	2192370	1.51E-94	0.78
30147	2209207	2209838	1.73E-40	0.84
30147	2229236	2230362	1.40E-74	0.68
30147	2238644	2239079	1.20E-29	0.77
30147	2254609	2255486	1.16E-94	0.89
30147	2256717	2257901	3.43E-39	0.65
30147	2264569	2265166	2.23E-29	0.76
30147	2278694	2279019	2.79E-22	0.65
30147	2282564	2286244	0.00E+00	0.81
30147	2293573	2293815	1.02E-18	0.71
30147	2298783	2299075	3.75E-17	0.8
30147	2298791	2299099	5.45E-17	0.79
30147	2324084	2325639	7.14E-35	0.73
30147	2341986	2342294	2.05E-11	0.9
30147	2342548	2342985	6.73E-18	0.87
30147	2352097	2352469	7.85E-16	0.85
30147	2378201	2379465	2.92E-31	0.67
30147	2379691	2380279	5.40E-51	0.87
30147	2402166	2402676	2.30E-21	0.76
30147	2402893	2404450	1.52E-44	0.65
30147	2416684	2417081	6.58E-25	0.88
30147	2417315	2417541	3.96E-22	0.87
30147	2418539	2419264	1.65E-30	0.85
30147	2425318	2425598	2.72E-21	0.89
30147	2427375	2427976	2.12E-27	0.8
30147	2435475	2436754	2.13E-75	0.87
30147	2437183	2437416	6.21E-18	0.6
30147	2444314	2445128	3.95E-29	0.79
30147	2445355	2445971	2.07E-64	0.92
30147	2447616	2448426	1.69E-38	0.9
30147	2449504	2449784	6.63E-15	0.89
30147	2451319	2451724	5.68E-22	0.68
30147	2461629	2462783	2.27E-87	0.65
30147	2470174	2470952	2.07E-62	0.92

30147	2474366	2475481	2.43E-33	0.8
30147	2476208	2477054	1.27E-48	0.68
30147	2480062	2480752	2.75E-61	0.93
30147	2509407	2509735	1.27E-28	0.88
30147	2513183	2513510	2.21E-10	0.79
30147	2524094	2524623	1.32E-58	0.89
30147	2567532	2567812	2.55E-18	0.85
30147	2580028	2580910	7.65E-45	0.78
30147	2581920	2582294	5.56E-17	0.76
30147	2628072	2628487	3.33E-35	0.9
30147	2646843	2647566	6.65E-57	0.85
30147	2647770	2649067	1.41E-55	0.79
30147	2649648	2649852	1.33E-14	0.85
30147	2657239	2657650	4.10E-43	0.86
30147	2661735	2662150	4.81E-37	0.81
30147	2668543	2671467	2.54E-148	0.88
30147	2707214	2707462	4.11E-09	0.77
30147	2714810	2715208	6.02E-28	0.96
30147	2721279	2721913	1.32E-24	0.84
30147	2731878	2733084	1.18E-35	0.81
30147	2745233	2745877	9.98E-43	0.84
30147	2746159	2746617	1.92E-25	0.86
30147	2747238	2750024	4.69E-139	0.9
30147	2757575	2759040	1.44E-42	0.82
30147	2759624	2760305	1.23E-21	0.72
30147	2765575	2766784	7.30E-64	0.83
30147	2776227	2777394	1.37E-98	0.72
30147	2778437	2779045	9.28E-26	0.85
30147	2781616	2782156	1.77E-29	0.68
30147	2782359	2783149	1.65E-36	0.88
30147	2784257	2785068	6.18E-35	0.6
30147	2790656	2792965	1.07E-72	0.81
30147	2834946	2835758	1.58E-75	0.76
30147	2835979	2836474	6.08E-41	0.84
30147	2866070	2866768	3.96E-23	0.75
30147	2868733	2869097	5.20E-62	0.85
30147	2877076	2877581	3.88E-22	0.84
30147	2880879	2881636	8.07E-28	0.77
30147	2891687	2892650	2.86E-26	0.75
30147	2937746	2938053	2.45E-10	0.74
30147	2946497	2948134	2.28E-99	0.86
30147	2948358	2949580	4.24E-115	0.88
30147	2974441	2975084	5.08E-29	0.88
30147	3012810	3013545	1.15E-27	0.83
30147	3049973	3050333	1.65E-24	0.81
30147	3050159	3050476	9.60E-19	0.81
30147	3098777	3099519	1.34E-35	0.73
30147	3100956	3102237	1.68E-137	0.92
30147	3139594	3140107	1.17E-23	0.77
30147	3179063	3180105	2.99E-57	0.85
30147	3187247	3187516	2.37E-54	0.88
30147	3195608	3196036	1.29E-17	0.77
30147	3201135	3201557	1.28E-13	0.66

30147	3216475	3216921	7.95E-21	0.93
30147	3217282	3217602	3.22E-108	0.94
30147	3237358	3237867	3.48E-34	0.68
30147	3252409	3253804	1.47E-117	0.78
30147	3282783	3283280	1.75E-18	0.74
30147	3290584	3290974	2.11E-24	0.95
30147	3314400	3314837	1.08E-23	0.79
30147	3314493	3314894	1.20E-23	0.81
30147	3319943	3320467	1.10E-26	0.79
30147	3334676	3335027	4.32E-18	0.79
30147	3336431	3337587	9.52E-30	0.66
30147	3338752	3339713	3.35E-20	0.82
30147	3341715	3342504	1.29E-128	0.93
30147	3342799	3343501	1.84E-23	0.81
30147	3353608	3354659	1.81E-34	0.81
30147	3355753	3357478	7.05E-52	0.72
30147	3385070	3385361	1.02E-18	1
30147	3385563	3386292	4.99E-51	0.88
30147	3393292	3394098	2.21E-62	0.88
30147	3418801	3419661	6.84E-31	0.81
30147	3446659	3447007	8.09E-15	0.77
30147	3455728	3456278	1.42E-14	0.81
30147	3464677	3465578	6.70E-39	0.8
30147	3466496	3466801	6.20E-23	0.8
30147	3486911	3488588	4.94E-84	0.83
30147	3524948	3525316	2.35E-14	0.79
30147	3528445	3528872	2.93E-30	0.88
30147	3529479	3530195	3.82E-18	0.76
30147	3535119	3535474	1.90E-18	0.89
30147	3539717	3540128	4.61E-07	0.78
30147	3541924	3542626	1.17E-21	0.84
30147	3552893	3554376	3.15E-48	0.82
30147	3558987	3559340	2.08E-15	0.78
30147	3559958	3560440	1.23E-19	0.71
30147	3583919	3584593	2.48E-24	0.76
30147	3594471	3595771	3.16E-31	0.75
30147	3625424	3625988	2.40E-17	0.69
30147	3626671	3627915	3.13E-77	0.82
30147	3630343	3630711	3.15E-05	0.77
30147	3645661	3646117	1.89E-16	0.77
30147	3646390	3646734	2.75E-32	0.94
30147	3665074	3665411	1.39E-26	0.87
30147	3665859	3666579	3.91E-36	0.86
30147	3666876	3667619	2.35E-41	0.65
30147	3670417	3671073	1.07E-38	0.85
30147	3726993	3727413	1.38E-10	0.69
30147	3760524	3762052	5.92E-123	0.61
30147	3774423	3775302	3.64E-89	0.92
30147	3791764	3792762	3.80E-36	0.83
30147	3806758	3807163	3.33E-56	0.9
30147	3810556	3811729	3.86E-86	0.77
30147	3825296	3826226	2.70E-79	0.92
30147	3826661	3827058	5.64E-21	0.75

30147	3833212	3833869	3.84E-43	0.7
30147	3836785	3837922	2.33E-40	0.86
30147	3850018	3850297	4.74E-31	0.92
30147	3853407	3853743	4.11E-55	0.94
30147	3854510	3855106	1.05E-19	0.75
30147	3858264	3858501	8.41E-12	0.76
30147	3860575	3861723	1.18E-89	0.87
30147	3861924	3863608	1.05E-107	0.87
30147	3876522	3877192	3.31E-32	0.73
30147	3894206	3894803	1.23E-13	0.75
30147	3899780	3900053	9.09E-21	0.89
30147	3905569	3905870	4.57E-62	0.77
30147	3907893	3908313	1.04E-26	0.89
30147	3914077	3914332	6.22E-07	0.66
30147	3986826	3988013	1.23E-41	0.82
30147	3991937	3992660	1.62E-39	0.9
30147	4011550	4012084	6.69E-41	0.9
30147	4039993	4040567	2.13E-18	0.75
30147	4040961	4043072	1.91E-153	0.82
30147	4066273	4067314	7.48E-41	0.88
30147	4067588	4067952	2.18E-34	0.92
30147	4075681	4075951	3.60E-10	0.79
30147	4075867	4076141	5.54E-14	0.79
30147	4088451	4089121	1.40E-12	0.67
30147	4097694	4099044	5.20E-50	0.75
30147	4106830	4107073	6.41E-26	0.9
30147	4107750	4108207	6.77E-37	0.89
30147	4110215	4111094	2.10E-53	0.89
30147	4111397	4112580	2.08E-50	0.88
30147	4115250	4115891	1.85E-60	0.92
30147	4116757	4117052	1.07E-36	0.87
30147	4122999	4123841	4.55E-28	0.73
30147	4131692	4132719	1.35E-117	0.93
30147	4141831	4142371	1.09E-26	0.75
30147	4150598	4152147	2.15E-54	0.63
30147	4161615	4162833	5.31E-135	0.79
30147	4178735	4180132	4.37E-87	0.9
30147	4186185	4187897	1.02E-52	0.75
30147	4219937	4220502	1.48E-29	0.89
30147	4223585	4224019	1.38E-12	0.78
30147	4237447	4238625	3.05E-33	0.81
30147	4241036	4241458	2.75E-14	0.81
30147	4243419	4244931	9.05E-87	0.88
30147	4245229	4245815	1.27E-27	0.86
30147	4249839	4250106	1.65E-25	0.82
30147	4250620	4251180	1.94E-43	0.86
30147	4281000	4281640	6.98E-52	0.82
30147	4301413	4301704	9.16E-24	0.82
30147	4302491	4303632	4.07E-78	0.87
30147	4365998	4366560	9.17E-17	0.72
30147	4369023	4369393	1.05E-31	0.87
30147	4369609	4370413	3.55E-34	0.73
30147	4374126	4374487	4.14E-15	0.82

30147	4379111	4379361	5.50E-42	0.94
30147	4392201	4392954	5.84E-74	0.87
30147	4393557	4393934	2.57E-48	0.95
30147	4394151	4394556	2.75E-40	0.89
30147	4395178	4395503	9.39E-34	0.83
30147	4417290	4417537	7.15E-11	0.85
30147	4461336	4461566	1.65E-12	0.81
30147	4462802	4464679	2.10E-219	0.9
30147	4467050	4467636	2.96E-30	0.81
30147	4479634	4480031	4.99E-15	0.83
30147	4482278	4482506	1.38E-28	0.81
30147	4482975	4483469	3.10E-14	0.7
30147	4493005	4493788	6.13E-32	0.79
30147	4533556	4534265	1.60E-70	0.74
30147	4536206	4538091	6.04E-296	0.78
30147	4558943	4560279	2.76E-60	0.89
30147	4574924	4576048	7.03E-47	0.64
30147	4581546	4583140	1.14E-58	0.67
30147	4620549	4621651	1.90E-68	0.86
30147	4625416	4625726	2.11E-29	0.82
30147	4654604	4655566	1.37E-45	0.83
30147	4662033	4662402	1.63E-19	0.82
30148	4245	4587	3.64E-15	0.85
30148	5066	5486	3.30E-21	0.84
30148	15160	15627	4.99E-29	0.77
30148	25173	25484	3.48E-27	0.89
30148	28615	29580	6.78E-54	0.85
30148	30426	30782	1.32E-30	0.97
30148	33931	34912	1.47E-29	0.65
30148	46294	46681	9.21E-18	0.85
30148	49964	50357	9.30E-21	0.79
30148	55154	55636	1.38E-25	0.84
30148	59668	60104	1.08E-65	0.85
30148	66484	66803	4.32E-11	0.79
30148	70683	71924	1.81E-62	0.82
30148	72297	73296	5.14E-56	0.82
30148	73869	74439	2.67E-37	0.85
30148	75743	76246	2.37E-37	0.68
30148	86629	87387	2.40E-33	0.82
30148	105503	105866	5.55E-05	0.64
30148	113433	113867	6.03E-26	0.89
30148	117078	117553	1.56E-31	0.84
30148	118413	119373	1.74E-82	0.75
30148	119740	120327	1.07E-25	0.86
30148	121465	122042	2.20E-26	0.76
30148	127844	128095	1.85E-17	0.88
30148	131299	131743	1.08E-33	0.86
30148	132045	132254	3.70E-15	0.78
30148	151624	151934	3.04E-32	0.82
30148	175507	175983	1.41E-14	0.9
30148	178599	178918	3.06E-10	0.75
30148	179986	180595	7.93E-25	0.81
30148	233990	234836	2.04E-53	0.61

30148	254631	256864	5.32E-71	0.83
30148	271492	271975	3.77E-14	0.66
30148	292806	293326	2.81E-36	0.75
30148	293635	294201	1.20E-17	0.7
30148	294495	294858	5.17E-33	0.96
30148	307413	307823	7.63E-13	0.82
30148	315273	315494	1.72E-22	0.78
30148	342360	342711	1.81E-33	0.97
30148	349875	350101	5.38E-08	0.94
30148	351694	351995	4.35E-14	0.77
30148	355334	355568	7.33E-17	1
30148	384480	384895	5.00E-24	0.82
30148	385576	386309	1.82E-55	0.92
30148	396419	398039	9.83E-91	0.89
30148	409122	409561	1.22E-27	0.86
30148	415306	416451	9.08E-41	0.61
30148	419758	420163	1.61E-29	0.76
30148	420447	421195	9.79E-28	0.77
30148	424006	424742	1.17E-58	0.86
30148	431178	431539	1.15E-16	0.84
30148	483091	483391	4.15E-22	0.78
30148	511555	511895	1.14E-31	0.76
30148	515603	515995	6.00E-28	0.78
30148	516750	517274	6.93E-25	0.85
30149	2162	2619	5.68E-09	0.61
30149	2955	3486	1.25E-14	0.83
30149	3736	3999	1.06E-43	0.97
30149	19355	19851	4.03E-11	1
30149	22555	22843	2.62E-07	0.6
30149	26864	27653	1.12E-27	0.96
30149	58387	58658	8.71E-05	0.82
30149	66391	67128	6.05E-24	0.87
30149	82378	83580	7.72E-47	0.93
30149	97653	98113	2.39E-30	0.88
30149	105001	105451	2.60E-10	0.83
30149	112752	113674	4.45E-44	0.87
30149	116973	118059	2.62E-64	0.93
30149	123388	123781	2.48E-22	0.94
30149	124808	125165	2.02E-52	0.91
30149	125610	126170	1.85E-47	0.91
30149	177009	178164	8.26E-43	0.95
30149	178597	179188	7.86E-32	0.92
30149	180899	181684	4.15E-54	0.68
30149	181623	182637	1.87E-50	0.82
30149	222820	223457	1.26E-34	0.89
30149	224320	224827	7.77E-28	0.9
30149	225072	225465	7.25E-32	0.88
30149	226232	227062	5.74E-52	0.78
30149	232226	232791	8.51E-31	0.83
30149	239886	240086	1.33E-23	0.96
30149	241627	242275	1.64E-40	0.78
30149	253566	254075	3.86E-55	0.94
30149	254345	254952	6.00E-24	0.92

30149	281160	282026	3.63E-83	0.97
30149	287110	287567	9.70E-23	0.96
30149	288104	288702	1.96E-55	0.97
30149	289261	290960	1.68E-83	0.84
30149	291233	292085	3.09E-34	0.9
30149	294030	294978	7.97E-36	0.77
30149	295304	295828	5.41E-24	0.85
30150	9697	10036	2.20E-15	0.75
30150	15048	15536	2.70E-13	0.76
30150	56120	56732	6.04E-23	0.87
30150	77402	77860	5.65E-15	0.63
30150	80253	80543	6.10E-16	0.89
30150	84941	85460	3.13E-17	0.87
30150	103371	103639	4.44E-28	0.94
30150	118113	119092	7.33E-55	0.95
30150	147544	148184	1.73E-28	0.67
30150	148401	149138	3.51E-74	0.85
30150	174640	175692	6.43E-57	0.83
30150	182149	182613	3.75E-38	0.71
30150	185500	185867	8.66E-11	0.85
30150	209001	209809	1.96E-13	0.79
30150	217872	218222	6.72E-26	0.87
30150	222089	222730	3.42E-33	0.76
30150	223439	223739	3.98E-25	0.92
30150	225033	225476	7.36E-32	0.83
30150	240766	241095	8.96E-35	0.98
30150	256186	256740	6.73E-23	0.86
30150	256753	257181	4.63E-14	0.89
30150	257925	258593	4.54E-19	0.77
30150	260091	260477	1.04E-09	0.83
30150	266092	266536	3.21E-46	0.9
30150	269072	269678	2.83E-17	0.84
30150	282978	283599	5.14E-20	0.74
30150	285336	286107	3.09E-38	0.83
30150	286628	287303	9.22E-50	0.91
30150	290430	290826	6.82E-17	0.95
30150	293460	294146	8.81E-78	0.88
30150	295939	296985	1.12E-183	0.9
30150	297647	297886	6.95E-34	0.87
30150	317509	318108	7.53E-46	0.79
30150	318444	318736	1.82E-29	0.9
30150	319131	319704	8.32E-54	0.88
30150	327277	327626	9.94E-31	0.91
30150	344822	345335	2.76E-14	0.93
30150	350538	351174	1.34E-27	0.92
30150	384143	384563	6.97E-31	0.95
30150	441325	441838	6.32E-22	0.82
30150	455989	456225	3.39E-17	0.92
30150	457168	457564	9.90E-16	0.79
30150	488466	488750	7.37E-15	0.79
30150	491146	491581	1.51E-33	0.96
30150	493030	494211	1.61E-34	0.69
30151	40680	41513	7.75E-16	0.92

30151	65445	65695	7.58E-17	0.84
30151	75051	75618	9.83E-13	0.94
30151	86906	87415	1.60E-05	0.83
30151	107168	107439	1.21E-08	0.91
30151	242368	242878	8.75E-12	0.92
30151	290519	290814	2.31E-04	0.93
30151	474577	474969	2.07E-10	0.82
30151	476600	477323	4.70E-33	0.92
30152	12252	12800	2.39E-06	1
30152	23729	24182	1.58E-34	0.96
30152	24848	25292	1.16E-28	0.96
30152	56824	57097	3.77E-20	0.77
30152	75592	75932	4.75E-36	0.94
30152	104688	105102	1.18E-05	0.22
30152	160371	161085	1.97E-42	0.98
30152	194918	195301	1.26E-19	0.6
30152	196116	196530	1.80E-38	0.9
30152	202969	203177	1.08E-37	0.97
30152	295830	296104	2.67E-18	0.81
30152	313789	314033	6.83E-11	0.8
30152	416703	417054	6.12E-07	0.85
30152	420037	420393	1.50E-138	0.9
30152	498973	499494	5.26E-29	0.76
30152	510204	510622	5.17E-36	0.9
30152	551443	551794	1.68E-08	0.86
30152	599703	600049	4.24E-60	0.92
30152	610979	611334	2.82E-22	0.87
30152	662064	662942	3.79E-68	0.91
30152	682173	682696	7.93E-24	0.85
30152	683627	683882	1.21E-09	0.74
30152	701315	701833	8.61E-67	0.93
30152	703111	703582	1.58E-26	0.97
30152	718241	718686	7.04E-13	0.62
30152	787264	788046	7.85E-65	0.93
30152	791347	791741	1.57E-06	0.95
30152	856185	856501	1.10E-07	0.84
30152	874572	874856	5.30E-12	0.72
30152	874968	875268	2.03E-23	0.72
30152	883333	883654	9.13E-05	0.91
30152	905166	905627	8.08E-38	0.96
30152	918252	918470	1.08E-44	0.96
30152	919011	919238	5.24E-59	0.92
30152	919510	920180	1.47E-44	0.93
30152	978857	979399	2.37E-27	0.95
30152	979820	980234	1.84E-93	0.94
30152	1001036	1001443	1.42E-15	0.81
30152	1016652	1016952	4.05E-12	0.75
30152	1147481	1147778	7.02E-20	0.82
30152	1172763	1173298	2.06E-11	0.88
30152	1186809	1187166	1.88E-30	0.94
30152	1208756	1209290	3.24E-23	0.9
30152	1247669	1247937	8.68E-07	0.96
30152	1264163	1264710	3.61E-81	0.73

30152	1277565	1278300	2.46E-53	0.78
30152	1287239	1288012	2.82E-18	0.65
30152	1386323	1386822	4.75E-24	0.93
30152	1405339	1406112	4.08E-30	0.73
30152	1409162	1409735	6.03E-44	0.93
30152	1421001	1421537	2.19E-47	0.91
30152	1526640	1527444	1.20E-138	0.92
30152	1532627	1533022	4.46E-12	0.61
30152	1549817	1550283	1.22E-112	0.97
30152	1570060	1570496	5.59E-05	0.8
30152	1582039	1582504	1.33E-83	0.93
30152	1620447	1620850	1.07E-15	0.84
30152	1634411	1634855	6.17E-65	0.96
30152	1655689	1656339	1.66E-24	0.85
30152	1656659	1656979	4.52E-42	0.96
30152	1682635	1683203	9.35E-38	0.92
30152	1710134	1710557	3.89E-32	0.94
30152	1738482	1738817	8.18E-15	0.91
30152	1782166	1782597	8.79E-34	0.95
30152	1783312	1784125	1.17E-75	0.94
30152	1807600	1807920	4.42E-96	0.93
30152	1830503	1830899	4.11E-40	0.96
30152	1860977	1862103	2.90E-49	0.78
30152	1862424	1864132	1.27E-146	0.9
30152	1919896	1920529	1.05E-35	0.94
30152	1957842	1958313	7.26E-13	0.88
30152	1994904	1995137	7.24E-05	0.82
30152	2011112	2011479	1.28E-17	0.8
30152	2024421	2024762	2.53E-06	0.86
30152	2027518	2027747	1.24E-05	0.8
30152	2027552	2027752	4.50E-07	0.85
30152	2078434	2078686	1.72E-05	0.83
30152	2078781	2079021	3.23E-07	0.85
30152	2088349	2088571	7.70E-15	0.87
30152	2090711	2091380	1.54E-13	0.96
30152	2118765	2119155	4.33E-04	0.83
30152	2160859	2161072	5.97E-05	0.97
30152	2190127	2190508	3.42E-08	0.77
30152	2293456	2293798	2.36E-05	0.84
30152	2319818	2320139	5.83E-07	0.82
30152	2347206	2347489	1.88E-07	0.78
30152	2367619	2367971	5.01E-07	0.8
30152	2417311	2417653	2.08E-09	0.87
30152	2420297	2420523	2.38E-05	0.84
30153	19226	19726	1.11E-27	0.79
30153	106737	107027	6.11E-18	0.77
30153	112666	112986	4.42E-14	0.92
30153	113665	114218	4.58E-30	0.82
30153	200729	202127	2.66E-36	0.61
30153	210121	210363	4.16E-04	0.82
30153	212009	212275	1.52E-10	0.94
30153	236691	237162	1.09E-37	0.94
30153	260524	260963	7.01E-17	0.95

30153	287142	287908	1.44E-44	0.89
30153	291353	291918	1.20E-14	0.78
30153	292680	293032	2.76E-34	0.85
30153	311537	312096	1.43E-21	0.92
30153	333635	333937	2.18E-11	0.85
30153	334169	334890	4.73E-13	0.71
30153	335253	335650	2.22E-15	0.89
30153	336890	337296	3.31E-36	0.84
30153	352160	352513	1.00E-06	0.9
30153	361264	361523	1.00E-06	0.8
30153	362286	362580	4.74E-05	0.95
30153	381496	381853	5.66E-10	0.88
30153	387688	388667	2.92E-133	0.86
30153	390388	390638	1.32E-13	0.86
30153	391518	391736	2.94E-23	0.93
30153	404521	405554	1.60E-44	0.83
30153	488604	489333	1.03E-08	0.83
30153	494933	495186	2.69E-04	0.91
30153	524947	525352	7.41E-10	0.83
30153	567313	567664	4.78E-10	0.94
30153	569113	569519	3.50E-07	0.84
30153	573494	573911	1.78E-57	0.95
30153	578404	578715	1.64E-23	0.86
30153	595770	596215	1.62E-07	0.97
30153	599346	599552	4.39E-10	0.98
30153	689376	689876	4.86E-07	0.93
30153	727107	727351	1.63E-04	1
30153	766650	767247	3.48E-08	0.81
30154	2856	4368	9.35E-46	0.88
30154	110996	111295	9.95E-24	0.93
30154	113411	115723	2.30E-145	0.9
30154	119306	119812	1.02E-52	0.97
30154	124579	124928	2.69E-26	0.86
30154	130322	131110	6.67E-21	0.95
30154	138330	138982	4.44E-23	0.77
30154	202502	202960	2.07E-07	0.89
30154	209868	210130	1.45E-19	0.83
30154	214086	214505	8.63E-07	0.77
30154	223019	223515	4.46E-22	0.87
30154	281454	281751	7.97E-35	0.9
30154	284195	284690	1.49E-15	0.79
30154	299859	301171	1.44E-119	0.94
30154	326524	326745	8.72E-06	0.82
30154	342442	343038	3.29E-65	0.92
30154	344064	344781	9.57E-31	0.93
30154	362710	363182	1.75E-10	0.84
30154	366661	367450	7.17E-40	0.85
30154	469454	469694	3.68E-14	0.75
30154	479006	480133	2.66E-105	0.93
30154	487330	487708	1.91E-19	0.91
30154	491679	492030	4.24E-12	0.81
30154	536209	536902	8.30E-32	0.88
30154	537400	537658	3.47E-26	0.97

30154	626058	626623	2.35E-44	0.94
30154	693768	694604	3.62E-36	0.8
30154	778208	778774	2.10E-46	0.81
30154	778980	779758	1.88E-31	0.79
30154	787309	787574	9.48E-14	0.92
30154	789138	789977	3.66E-62	0.75
30154	790541	790996	3.33E-22	0.91
30154	809963	810189	5.53E-06	0.82
30154	813719	814317	2.21E-27	0.8
30154	832911	833400	4.39E-48	0.94
30154	834593	835169	3.53E-52	0.95
30154	838384	839059	4.32E-60	0.67
30154	849990	850363	1.51E-15	0.77
30154	857297	857716	2.15E-28	0.84
30154	858883	859221	1.92E-29	0.98
30154	861418	861994	8.60E-53	0.92
30154	878244	878624	9.84E-14	0.83
30154	885028	885568	3.29E-24	0.9
30154	885794	886059	3.31E-15	0.94
30154	890912	891251	2.04E-17	0.75
30155	24461	25479	4.45E-63	0.71
30155	34755	35134	3.32E-12	0.89
30155	93621	94168	2.75E-25	0.93
30155	129393	129814	3.88E-20	0.95
30155	155602	155831	9.16E-07	0.93
30155	161687	162011	5.47E-16	0.89
30155	328939	329239	1.61E-09	0.92
30155	397671	398231	9.52E-21	0.78
30155	409107	409924	2.25E-54	0.94
30155	412208	412612	6.27E-32	0.96
30155	413087	413388	1.50E-44	0.99
30155	414813	415079	3.99E-38	0.95
30155	424998	425314	1.70E-30	0.94
30155	483936	485025	1.34E-55	0.84
30155	485347	486566	5.52E-59	0.83
30155	533002	533288	1.84E-10	0.92
30155	643588	643803	3.49E-43	0.82
30155	668677	669154	1.03E-39	0.93
30155	670811	671261	9.40E-55	0.94
30155	681577	682880	1.37E-48	0.82
30155	730927	731256	4.83E-40	0.89
30155	732476	732723	1.90E-33	0.91
30155	749075	749437	1.65E-03	1
30155	796912	797188	6.32E-10	0.83
30155	808854	809628	1.68E-34	0.79
30155	857007	857672	1.40E-34	0.97
30155	892862	893294	6.44E-05	0.86
30155	896876	897110	2.53E-04	1
30155	907961	908430	7.12E-31	0.83
30155	923209	923442	1.43E-22	0.6
30155	947713	948329	5.19E-35	0.96
30155	965560	965843	8.07E-09	0.91
30155	967379	967668	2.13E-19	0.96

30155	968107	968705	1.17E-34	0.95
30155	987577	988134	7.13E-14	0.7
30155	988661	989537	1.97E-48	0.94
30155	1019276	1020021	1.40E-60	0.95
30155	1099494	1099739	2.64E-13	0.95
30155	1195375	1195692	3.11E-23	0.96
30155	1277119	1277449	1.23E-17	0.94
30155	1294242	1294565	2.08E-06	0.87
30155	1347026	1347344	3.30E-19	0.84
30155	1392909	1393266	3.44E-06	0.97
30155	1394081	1394343	9.54E-05	1
30155	1462326	1462539	1.75E-06	0.87
30156	198	417	5.42E-09	0.63
30156	65050	65564	1.05E-04	0.96
30156	75907	76980	4.06E-14	0.6
30156	127068	127534	1.28E-11	0.8
30156	169978	170642	1.72E-132	0.95
30156	198131	198551	1.89E-21	0.85
30156	209861	210139	1.37E-04	0.95
30156	215845	216102	2.52E-05	0.88
30156	239630	240092	1.09E-20	0.79
30156	240325	240641	3.81E-05	0.82
30156	269743	269976	4.97E-06	0.92
30156	273009	273490	1.47E-03	0.86
30156	282870	283363	6.59E-05	0.67
30156	283788	284040	9.59E-09	0.95
30156	323676	323934	3.15E-10	0.93
30156	340887	341107	2.45E-13	0.79
30156	388222	389065	7.16E-60	0.96
30156	432543	433413	1.53E-37	0.81
30156	462908	463470	4.08E-06	1
30156	499663	500149	3.08E-06	0.82
30156	567670	568063	1.05E-06	0.94
30156	589694	590093	4.65E-05	1
30156	618562	618816	2.70E-13	0.81
30156	648949	649196	8.35E-17	0.87
30156	654091	654304	1.23E-15	0.91
30156	664421	664811	1.93E-06	0.9
30156	687351	688031	1.80E-39	0.82
30156	700738	701532	2.07E-39	0.68
30156	702702	703276	1.92E-33	0.83
30156	720894	721265	2.61E-06	1
30156	742396	742597	1.32E-17	1
30156	745546	746398	9.23E-52	0.85
30156	752111	752394	1.49E-36	0.88
30156	752606	753503	9.19E-25	0.71
30156	766526	767248	5.76E-54	0.7
30156	770283	771161	1.10E-33	0.78
30156	793010	793270	3.03E-30	0.94
30156	823821	824047	6.19E-12	0.79
30156	836579	837504	8.62E-34	0.67
30156	853737	853952	8.61E-06	0.83
30156	943333	943615	2.06E-23	0.97

30156	963418	963773	2.29E-24	0.73
30156	967892	969931	1.21E-159	0.94
30156	1013306	1014019	1.46E-43	0.83
30156	1021856	1022295	9.10E-32	0.91
30156	1025354	1025750	1.45E-12	0.8
30156	1026760	1027421	3.09E-22	0.82
30156	1027707	1027913	1.32E-39	0.85
30156	1161518	1161869	1.37E-54	0.92
30156	1162784	1163491	1.48E-26	0.75
30156	1204996	1205644	2.49E-30	0.91
30156	1208124	1208920	1.07E-50	0.94
30156	1218041	1218793	5.34E-44	0.93
30156	1239640	1240121	2.08E-47	0.93
30156	1242133	1243262	5.17E-105	0.96
30156	1246507	1246897	1.71E-49	0.8
30156	1247171	1247983	5.59E-32	0.84
30156	1251038	1251274	9.23E-31	0.96
30156	1252590	1252940	1.26E-32	0.8
30156	1297175	1297424	1.45E-21	0.81
30156	1297974	1298252	5.83E-24	0.91
30156	1316450	1316738	1.90E-19	0.95
30156	1318434	1318724	3.12E-16	0.68
30156	1359475	1360931	1.14E-77	0.9
30156	1368528	1368839	1.82E-10	0.94
30156	1378045	1378248	2.04E-22	0.84
30156	1378598	1378829	1.75E-22	0.9
30156	1389722	1390656	6.34E-44	0.65
30156	1392831	1393677	5.50E-39	0.94
30156	1413276	1413771	8.18E-26	0.89
30156	1414058	1414361	8.00E-54	0.95
30156	1414574	1416163	7.90E-109	0.89
30156	1418712	1419087	1.11E-31	0.98
30156	1443428	1443831	1.87E-15	0.79
30156	1448882	1449416	8.57E-22	0.91
30156	1449903	1450410	1.20E-12	0.88
30156	1453872	1455499	8.06E-60	0.89
30156	1476664	1476876	1.41E-06	0.77
30156	1491792	1492320	4.09E-14	0.71
30156	1492017	1492465	1.04E-09	0.83
30157	4402	4662	1.16E-07	0.76
30157	11463	11960	1.34E-11	0.76
30157	59607	60231	2.56E-59	0.92
30157	78615	79097	7.25E-13	0.81
30157	79466	80068	5.04E-41	0.94
30157	88920	89743	4.03E-25	0.84
30157	91347	91555	2.62E-21	0.85
30157	97509	99189	7.27E-103	0.93
30157	115355	116094	2.55E-59	0.86
30157	149921	150369	9.60E-15	0.96
30157	151140	151525	2.63E-11	0.79
30157	156397	156773	1.65E-12	0.68
30157	157616	158055	3.26E-27	0.84
30157	166968	167351	4.52E-10	0.83

30157	170450	170712	3.09E-23	0.83
30157	187373	188370	1.69E-79	0.9
30157	188591	188841	9.18E-27	0.94
30157	191202	191518	4.36E-22	0.65
30157	195006	196373	4.26E-79	0.84
30157	211588	212107	6.92E-34	0.9
30157	213908	214246	1.87E-28	0.97
30157	232740	233111	8.75E-52	0.76
30157	235085	235957	4.98E-48	0.93
30157	237201	237670	7.81E-12	0.82
30157	244582	244819	1.63E-22	0.9
30157	246474	247284	7.10E-41	0.92
30157	281297	281525	7.74E-10	0.9
30157	283703	284198	1.89E-25	0.8
30157	327290	327576	7.14E-07	0.94
30157	348069	349546	2.01E-64	0.75
30157	356231	357039	1.02E-31	0.88
30157	409786	410281	4.16E-14	0.93
30157	487626	487965	6.88E-06	0.84
30157	491353	492058	1.66E-26	0.9
30157	500064	500514	1.02E-06	0.77
30157	500576	500929	1.82E-08	0.97
30157	517575	517994	1.48E-08	0.88
30157	543264	543624	1.55E-31	0.76
30157	544682	545531	1.70E-66	0.92
30157	546503	547098	2.25E-45	0.9
30157	547772	548352	4.98E-95	0.87
30157	564105	564541	3.72E-08	0.84
30157	632205	632518	1.28E-42	0.77
30157	635093	635564	2.95E-21	0.9
30157	647192	647523	7.15E-07	0.9
30157	655461	655862	5.36E-07	0.97
30157	656389	656684	4.54E-06	0.76
30157	663587	664203	2.89E-04	0.92
30157	664479	665020	5.64E-07	0.88
30157	701236	701500	2.41E-04	0.88
30158	8735	9012	1.83E-38	0.64
30158	13829	14783	1.22E-72	0.94
30158	17664	18192	1.08E-35	0.91
30158	76484	76939	3.81E-37	0.93
30158	78901	79280	2.09E-37	0.82
30158	80833	81205	1.12E-25	0.94
30158	81957	82474	1.34E-25	0.93
30158	83737	84495	1.96E-42	0.74
30158	179564	179831	3.20E-15	0.85
30158	181571	182140	2.66E-20	0.9
30158	190612	191384	8.96E-29	0.93
30158	231503	232022	3.84E-62	0.95
30158	237346	237759	1.50E-25	0.81
30158	238029	238612	1.37E-15	0.76
30158	303830	304257	1.34E-03	0.93
30158	399908	400145	1.10E-03	0.73
30158	422572	423615	9.30E-73	0.94

30158	427157	427801	1.17E-32	0.95
30158	437937	438238	1.94E-13	0.97
30158	451986	452189	9.10E-07	0.96
30158	461173	461574	6.27E-29	0.91
30159	1920	2207	6.85E-42	0.82
30159	15360	15690	7.53E-15	0.83
30160	44690	45002	8.16E-07	0.97
30160	47961	48214	2.12E-07	0.87
30160	48317	48576	2.19E-08	0.93
30160	63091	63606	5.86E-08	0.81
30160	134374	134782	6.78E-05	0.79
30160	145109	145473	1.18E-12	0.92
30160	201770	202153	4.07E-11	0.84
30160	202469	202956	1.39E-11	0.89
30160	234544	234970	2.58E-25	0.81
30160	269759	270990	1.56E-67	0.96
30160	283028	283885	3.40E-28	0.8
30160	305461	306147	1.74E-26	0.79
30160	329733	330647	1.50E-119	0.71
30160	330848	332038	8.11E-71	0.88
30161	8407	8630	1.32E-13	0.77
30161	10350	10818	1.56E-28	0.82
30161	18690	19239	8.90E-16	0.71
30161	52883	53346	1.69E-08	0.62
30161	56425	56698	7.12E-21	0.91
30161	68806	69088	4.58E-12	0.79
30162	15536	15790	4.38E-17	0.83
30162	17317	18285	4.66E-34	0.72
30162	62458	65319	1.56E-87	0.78
30162	94487	94704	3.11E-08	0.73
30162	95019	95247	3.10E-13	0.84
30162	97277	97497	3.53E-12	0.86
30162	124387	124924	1.81E-05	0.88
30162	126898	127200	7.32E-03	0.7
30162	127710	128185	5.82E-11	0.86
30162	215887	216191	4.37E-12	0.91
30162	268122	268965	2.12E-34	0.75
30162	370826	371862	1.84E-30	0.84
30162	396909	397296	1.55E-19	0.94
30162	538441	539107	7.33E-47	0.76
30162	552197	552711	4.76E-05	0.89
30162	615142	615546	9.15E-11	0.83
30162	632650	634054	2.38E-76	0.92
30162	634344	634806	1.77E-21	0.88
30162	636122	636547	5.32E-27	0.97
30162	639109	639803	1.05E-37	0.88
30162	641093	641589	5.59E-38	0.9
30162	644616	644932	1.43E-08	0.8
30162	664490	665594	1.31E-43	0.76
30162	803304	803653	3.34E-09	0.79
30162	804199	804471	8.48E-19	0.91
30162	804720	805501	2.64E-44	0.93
30162	805781	806122	3.72E-39	0.92

30162	806378	806890	3.63E-70	0.83
30162	807452	807996	1.35E-35	0.92
30162	810044	810879	4.76E-42	0.91
30162	821075	821422	2.35E-20	0.93
30162	826568	826913	2.99E-15	0.8
30162	846997	847197	4.90E-13	0.84
30162	865129	865715	2.11E-25	0.78
30162	872597	873013	3.31E-35	0.96
30162	876801	877080	3.88E-18	0.84
30162	885526	886050	1.08E-14	0.86
30162	914412	914920	8.59E-28	0.89
30162	928136	928710	4.39E-25	0.91
30162	938397	938672	4.41E-09	0.86
30162	963752	964274	1.52E-33	0.86
30162	986217	986672	1.80E-37	0.88
30162	1003572	1004117	5.24E-11	0.78
30162	1064305	1064603	2.23E-03	0.92
30162	1076373	1078558	1.08E-112	0.83
30162	1079219	1079766	1.06E-23	0.81
30162	1081082	1081703	3.97E-43	0.94
30162	1081967	1082532	2.86E-16	0.79
30162	1083643	1084460	6.02E-47	0.93
30162	1117393	1117682	1.52E-43	0.94
30162	1118206	1118560	1.76E-09	0.93
30162	1138163	1138385	3.12E-53	0.74
30162	1138653	1139130	1.49E-39	0.85
30162	1139497	1139756	8.14E-57	0.97
30162	1144838	1145105	1.12E-10	0.76
30162	1145077	1145363	3.24E-20	0.74
30162	1195647	1196135	7.61E-51	0.82
30162	1200134	1201840	1.16E-117	0.83
30162	1256538	1256836	2.58E-39	0.96
30162	1264367	1264756	4.29E-07	0.94
30162	1275831	1277177	1.40E-86	0.85
30162	1278913	1279495	3.10E-38	0.76
30162	1282675	1283920	2.46E-63	0.89
30162	1284749	1285363	3.06E-27	0.79
30162	1286242	1286764	3.82E-16	0.79
30162	1287024	1288688	5.42E-116	0.88
30162	1308093	1308297	9.31E-11	0.91
30162	1344748	1344993	7.49E-25	0.96
30162	1382836	1383325	2.04E-108	0.98
30162	1393078	1393354	3.63E-29	0.96
30162	1395218	1395457	1.64E-20	0.91
30162	1407900	1408276	8.72E-36	0.96
30162	1417994	1418762	4.92E-96	0.94
30162	1440252	1440476	7.70E-09	0.65
30162	1441361	1442079	3.16E-26	0.87
30162	1466960	1467306	3.22E-32	0.94
30162	1468910	1469233	4.36E-17	0.96
30162	1518443	1518945	3.92E-56	0.95
30162	1574978	1575408	7.63E-24	0.85
30162	1575715	1576658	2.27E-66	0.93

30162	1580193	1580614	3.51E-12	0.91
30162	1648265	1648922	3.48E-18	0.78
30162	1707504	1707853	2.51E-20	0.99
30162	1715761	1716317	1.08E-87	0.9
30162	1719533	1719936	2.83E-36	0.92
30162	1753863	1754306	2.06E-28	0.92
30162	1774614	1775258	1.11E-57	0.89
30162	1775717	1776198	6.79E-134	0.95
30162	1777389	1777855	1.27E-30	0.95
30162	1779712	1781057	1.87E-79	0.75
30162	1802779	1803224	2.33E-37	0.96
30165	14395	14819	2.62E-08	0.86
30165	81062	82045	9.41E-44	0.9
30165	87183	88086	1.32E-16	0.92
30165	116072	116716	1.13E-11	0.84
30165	117239	118373	4.08E-28	0.92
30165	163293	163562	3.31E-06	0.9
30165	211622	212436	3.63E-18	0.9
30165	224614	225252	6.54E-21	0.85
30165	229854	230415	5.65E-06	0.86
30165	250813	251065	6.05E-91	0.84
30165	251299	251737	1.00E-16	0.79
30165	279017	279347	3.14E-156	0.79
30165	282827	283168	1.32E-07	0.89
30165	284593	285139	3.47E-16	0.91
30165	285448	286254	5.29E-08	0.82
30165	294959	295763	1.91E-13	0.88
30165	296016	296426	9.59E-07	0.8
30166	14045	14373	5.09E-17	0.95
30166	19435	19874	7.32E-14	0.85
30166	48770	49148	4.18E-20	0.99
30166	50825	51196	2.25E-25	0.84
30166	55925	56283	4.20E-12	0.88
30166	58687	59278	5.64E-05	0.87
30166	77967	78254	6.80E-05	1
30166	85706	86258	3.20E-31	0.81
30166	90940	91473	2.32E-20	0.82
30166	93704	94390	9.69E-23	0.82
30166	97930	98236	3.48E-22	0.79
30166	99373	99807	1.75E-40	0.81
30166	123230	123550	2.63E-19	0.83
30166	128073	128582	2.97E-06	0.88
30166	133850	134370	1.84E-35	0.88
30166	160661	161289	4.80E-07	0.78
30166	162212	163004	2.86E-03	0.8
30166	163676	164347	2.51E-09	0.9
30166	171565	172198	5.21E-09	0.95
30166	177842	178053	1.62E-08	1
30166	190282	190522	4.16E-27	0.95
30166	190908	191347	6.44E-15	0.93
30166	191680	192361	8.99E-24	0.91
30166	210721	210970	3.78E-10	0.88
30167	13964	14280	1.37E-08	0.79

30167	29237	29634	1.36E-29	0.93
30167	37721	38460	2.92E-77	0.97
30167	46807	47091	5.70E-14	0.96
30167	159229	160203	4.32E-52	0.94
30167	180707	181058	6.01E-07	0.77
30167	185676	188014	6.34E-206	0.92
30167	189074	189507	1.11E-17	0.87
30167	190761	191427	3.53E-62	0.94
30167	236272	236642	2.33E-28	0.88
30167	244234	245386	3.04E-42	0.75
30167	278283	278754	1.64E-18	0.92
30167	336716	337026	6.53E-19	0.91
30167	355616	355960	3.61E-27	0.81
30167	356880	357353	1.95E-23	0.87
30167	363135	363730	2.56E-31	0.9
30167	379559	380015	5.70E-42	0.84
30167	380252	380592	1.96E-22	0.66
30167	382613	383837	1.29E-40	0.61
30167	404191	404919	4.55E-55	0.94
30167	406706	407903	4.04E-34	0.76
30167	410291	410818	6.66E-19	0.75
30167	432738	433094	1.36E-50	0.97
30167	461735	461994	1.40E-08	0.76
30167	491430	491752	1.62E-29	0.86
30167	538506	538827	1.27E-126	0.93
30167	539497	541017	1.76E-135	0.94
30167	551057	551519	2.92E-10	0.76
30167	642173	642506	3.23E-14	0.82
30167	690000	690283	1.70E-06	0.69
30168	23632	23948	1.70E-08	0.89
30168	62465	62878	3.22E-12	0.86
30169	3690	4184	1.81E-20	0.83
30169	19940	21260	2.06E-53	0.9
30169	21766	22112	2.86E-41	0.87
30169	22320	22745	8.02E-35	0.92
30169	24834	25498	6.81E-28	0.85
30169	26083	26379	1.01E-16	0.9
30169	31864	33127	3.56E-78	0.89
30169	33813	34067	8.13E-12	0.64
30169	40317	40539	6.71E-25	0.91
30169	63771	64432	2.22E-42	0.76
30169	71789	72203	3.67E-43	0.86
30169	72825	73868	6.05E-54	0.91
30169	78903	81776	1.42E-153	0.82
30169	136491	136804	1.77E-16	0.84
30169	145779	146895	7.72E-40	0.76
30169	160414	160668	6.00E-24	0.87
30169	162394	164759	6.03E-184	0.89
30169	165057	165324	2.09E-34	0.9
30169	165769	167796	6.38E-71	0.83
30169	172764	173422	5.16E-42	0.77
30169	178038	178650	5.68E-26	0.86
30169	178891	179229	5.06E-43	0.96

30169	179445	179747	6.16E-16	0.85
30169	200082	200513	4.41E-36	0.94
30169	202462	203364	3.36E-58	0.85
30169	209710	210381	7.80E-22	0.78
30169	217762	218421	1.44E-72	0.88
30169	218627	220071	2.06E-135	0.81
30169	243358	244955	6.48E-105	0.83
30169	248748	249477	1.36E-30	0.9
30169	250021	251108	1.04E-58	0.63
30169	254545	254931	3.79E-50	0.82
30169	255276	255667	4.53E-47	0.83
30169	258869	259810	8.50E-44	0.88
30169	260463	260938	4.61E-79	0.84
30169	261207	261473	2.04E-105	0.92
30169	306160	306726	3.08E-15	0.73
30169	307789	308086	1.85E-12	0.85
30169	321024	321247	2.25E-16	0.75
30169	363403	363914	2.15E-36	0.7
30169	364257	365279	2.26E-58	0.7
30169	367705	368207	3.59E-13	0.79
30169	374896	375210	3.41E-12	0.88
30169	376185	376477	1.35E-19	0.81
30169	377467	377885	4.45E-13	0.77
30169	384817	385477	3.32E-38	0.8
30169	401436	401780	4.90E-32	0.93
30169	406096	407222	8.67E-46	0.78
30169	408918	409236	1.25E-33	0.93
30169	410316	410828	5.03E-42	0.92
30169	411080	411587	6.31E-32	0.84
30169	425795	426006	2.32E-21	0.85
30169	426974	427549	4.60E-15	0.85
30169	439690	440209	5.42E-25	0.71
30169	456726	456988	1.64E-14	0.73
30169	464082	464444	2.93E-25	0.87
30169	464692	465322	3.51E-38	0.89
30169	468534	468831	8.69E-16	0.69
30169	509469	510154	1.20E-12	0.67
30169	544760	545066	2.26E-15	0.76
30169	567314	567755	2.10E-13	0.74
30169	567991	568517	6.61E-47	0.81
30169	578392	579949	5.22E-49	0.6
30169	587346	588478	2.09E-57	0.85
30169	626725	627323	1.61E-26	0.87
30169	637991	638249	1.63E-27	0.83
30169	673100	673990	7.03E-30	0.87
30169	688059	689057	2.94E-63	0.93
30169	694966	695306	3.73E-10	0.78
30169	696825	697119	9.92E-20	0.87
30169	706514	707934	3.23E-60	0.79
30169	708180	708561	3.02E-30	0.78
30169	710745	711039	1.07E-12	0.73
30169	711614	711932	3.83E-22	0.85
30169	712172	712584	1.98E-27	0.72

30169	739080	739759	1.87E-20	0.76
30169	752696	753289	3.60E-31	0.67
30169	754647	755197	4.40E-25	0.78
30169	763553	765132	7.23E-123	0.83
30169	781221	783076	5.20E-118	0.8
30169	801062	804130	1.21E-209	0.79
30169	849336	849664	1.94E-32	0.81
30169	850117	850489	7.81E-12	0.66
30169	918924	919867	1.16E-41	0.66
30169	920101	920774	3.28E-52	0.91
30169	952391	952664	1.72E-25	0.73
30169	959970	960387	1.05E-27	0.77
30169	975030	976309	4.24E-51	0.84
30169	977708	978024	6.65E-27	0.9
30169	1025456	1026728	9.60E-52	0.61
30169	1052554	1053380	2.89E-53	0.7
30169	1072551	1072836	2.42E-21	0.94
30169	1077539	1077820	5.00E-26	0.72
30169	1090166	1090753	2.25E-39	0.9
30169	1091095	1091448	1.43E-13	0.79
30169	1118898	1119358	2.96E-44	0.89
30169	1149113	1149902	1.41E-42	0.84
30169	1166969	1167936	2.27E-73	0.75
30169	1168173	1170560	4.49E-165	0.86
30169	1173464	1173954	3.08E-08	0.79
30169	1180510	1181015	9.02E-17	0.75
30169	1182247	1182645	1.32E-19	0.91
30169	1209673	1209923	5.12E-15	0.79
30169	1210440	1211670	1.26E-83	0.93
30169	1217513	1217883	1.30E-11	0.77
30169	1221401	1222440	1.03E-145	0.87
30169	1241030	1241699	2.09E-26	0.81
30169	1245209	1245570	2.48E-15	0.85
30169	1248704	1249045	1.13E-13	0.65
30169	1262007	1263230	1.28E-60	0.79
30169	1289034	1290050	2.48E-86	0.87
30169	1309205	1309949	4.01E-73	0.88
30169	1317976	1318487	1.52E-26	0.85
30169	1323104	1323397	1.45E-20	0.82
30169	1324034	1324251	2.13E-26	0.71
30169	1324597	1325208	3.11E-37	0.86
30169	1325422	1326115	1.46E-60	0.92
30169	1333237	1334020	2.56E-52	0.72
30169	1334360	1335256	2.24E-31	0.83
30169	1335472	1335973	2.76E-30	0.82
30169	1364486	1364747	1.71E-10	0.75
30169	1401844	1402168	1.02E-52	0.94
30169	1402413	1402730	3.36E-53	0.91
30169	1424593	1424926	1.49E-60	0.83
30169	1425158	1425884	9.71E-40	0.91
30169	1428103	1429306	4.90E-47	0.73
30169	1432217	1432432	1.35E-18	0.81
30169	1432765	1432966	2.73E-17	0.81

30169	1433678	1434911	2.00E-46	0.81
30169	1436270	1436724	1.98E-26	0.88
30169	1453954	1454390	1.58E-50	0.92
30169	1454772	1456714	2.60E-90	0.83
30169	1483386	1485510	1.58E-77	0.83
30169	1523891	1525202	1.68E-130	0.68
30169	1556181	1556712	1.85E-43	0.89
30169	1560011	1560458	2.82E-42	0.69
30169	1560703	1561049	4.42E-10	0.75
30169	1578159	1579176	6.87E-53	0.75
30169	1584794	1585566	1.11E-44	0.78
30169	1648540	1649020	5.01E-23	0.77
30169	1649399	1649686	6.40E-16	0.69
30169	1662081	1662511	2.01E-24	0.88
30169	1700399	1700904	4.96E-26	0.81
30169	1706276	1706482	8.99E-12	0.71
30169	1712278	1712603	3.77E-24	0.86
30169	1768479	1768934	3.52E-28	0.89
30169	1772438	1773643	1.52E-47	0.69
30169	1788992	1789210	4.40E-19	0.83
30169	1816223	1816683	2.21E-31	0.77
30169	1817006	1817242	9.55E-10	0.71
30169	1843490	1844941	1.09E-68	0.7
30169	1873088	1873811	3.94E-22	0.82
30169	1882239	1882826	6.92E-18	0.83
30169	1885973	1886197	1.03E-20	0.89
30169	1886465	1886893	9.19E-11	0.8
30169	1891879	1894020	2.75E-68	0.77
30169	1986400	1986783	8.24E-28	0.89
30169	1987565	1989294	7.37E-65	0.84
30169	2001436	2002180	8.50E-40	0.76
30169	2009969	2010845	1.08E-22	0.62
30169	2020125	2020398	3.15E-20	0.77
30169	2024894	2025651	8.20E-38	0.87
30169	2034653	2036220	8.15E-62	0.78
30169	2092494	2093303	7.00E-63	0.87
30169	2094650	2094994	7.98E-19	0.81
30169	2112768	2113076	2.57E-18	0.73
30169	2133065	2133677	2.46E-24	0.81
30169	2188393	2189466	3.48E-82	0.96
30169	2221014	2222144	2.36E-84	0.79
30169	2239904	2240820	2.95E-45	0.82
30169	2240202	2240859	1.51E-31	0.82
30169	2262452	2263319	5.54E-33	0.72
30169	2297834	2298155	9.82E-16	0.81
30169	2298358	2298915	4.50E-20	0.77
30169	2306595	2307197	2.58E-24	0.83
30169	2333155	2333589	4.28E-43	0.92
30170	5222	5790	6.54E-27	0.83
30170	45462	45775	6.48E-11	0.81
30170	52417	53291	1.45E-64	0.84
30170	53658	54100	8.98E-27	0.81
30170	57839	58132	3.20E-27	0.94

30170	58595	59168	6.23E-24	0.65
30170	69135	69361	7.78E-23	0.89
30170	71013	71303	4.33E-21	0.79
30170	72993	74174	5.31E-33	0.81
30170	75415	76021	2.17E-41	0.89
30170	116884	117191	1.13E-22	0.89
30170	138955	139951	4.46E-26	0.75
30170	169425	170839	2.06E-51	0.81
30170	171118	171544	3.99E-18	0.62
30170	202787	203124	1.39E-29	0.94
30170	203513	203821	1.01E-14	0.89
30170	204023	204307	3.22E-14	0.79
30170	204644	206962	2.10E-139	0.75
30170	221787	222294	4.96E-12	0.71
30170	240794	241145	3.85E-18	0.92
30170	261404	261644	2.82E-42	0.67
30170	261998	262467	3.50E-37	0.7
30170	266462	267019	4.90E-26	0.8
30170	348272	348569	2.20E-25	0.87
30170	349353	349750	4.52E-21	0.92
30170	350006	350272	1.15E-18	0.75
30170	377641	377850	3.40E-15	0.7
30170	410559	411040	3.84E-32	0.86
30170	430327	431315	4.77E-27	0.72
30170	466540	467063	2.87E-25	0.86
30170	493398	493718	4.36E-29	0.82
30170	494057	494590	8.67E-29	0.89
30170	503608	503996	1.20E-27	0.83
30170	506341	507271	9.05E-56	0.84
30170	511461	512133	1.52E-66	0.78
30170	537941	538331	4.02E-11	0.75
30170	560127	560385	7.43E-06	0.87
30170	572610	572881	1.91E-32	0.86
30170	575965	576814	1.20E-10	0.84
30170	636119	636641	7.61E-13	0.86
30170	637291	638336	3.05E-44	0.88
30170	638667	639166	1.91E-39	0.91
30170	658495	658696	1.48E-08	0.75
30170	710615	710896	2.77E-31	0.85
30170	719836	720484	6.45E-20	0.81
30170	728346	728591	1.13E-28	0.87
30170	768475	768895	7.96E-12	0.77
30170	770589	770963	9.81E-13	0.81
30170	770654	771172	1.30E-18	0.82
30170	795377	795921	3.63E-18	0.84
30170	804719	805886	4.25E-63	0.83
30170	841597	842270	2.63E-17	0.76
30170	844624	846062	3.17E-120	0.71
30170	865692	866378	6.37E-73	0.95
30170	866817	867166	1.27E-32	0.88
30170	873336	873692	1.57E-08	0.82
30170	878995	880125	1.39E-45	0.85
30170	880904	882565	2.62E-66	0.7

30170	934264	934514	8.97E-26	0.95
30170	953558	954050	2.40E-09	0.75
30170	1111052	1111287	1.94E-10	0.68
30170	1200968	1201185	2.46E-20	0.83
30170	1260415	1261408	7.15E-99	0.93
30170	1261616	1262069	9.88E-40	0.9
30170	1307943	1308543	1.11E-50	0.92
30170	1340684	1341208	4.87E-20	0.81
30170	1353582	1353982	3.23E-18	0.96
30170	1381816	1382444	5.46E-44	0.64
30170	1407706	1408007	5.83E-24	0.79
30170	1448617	1449544	1.72E-44	0.85
30170	1469686	1470319	1.47E-42	0.75
30170	1485716	1486998	1.57E-67	0.77
30170	1498423	1499364	2.73E-31	0.61
30170	1524537	1524983	2.03E-38	0.71
30170	1525459	1526095	1.63E-92	0.67
30170	1529479	1530231	1.93E-51	0.78
30170	1530965	1533925	2.90E-177	0.88
30170	1574172	1574530	8.81E-22	0.94
30170	1612189	1612911	4.48E-27	0.81
30170	1613858	1614144	3.91E-12	0.82
30170	1614998	1616180	2.39E-69	0.86
30170	1616873	1617157	3.04E-27	0.82
30170	1624414	1625035	1.59E-40	0.89
30170	1625293	1625580	1.03E-22	0.8
30170	1627308	1627531	1.15E-12	0.68
30170	1627783	1628272	3.83E-51	0.95
30170	1639367	1640187	1.82E-45	0.9
30170	1641675	1641957	2.39E-46	0.95
30170	1642530	1643260	3.58E-22	0.74
30170	1659624	1660123	2.98E-18	0.8
30170	1691366	1691690	1.85E-11	0.88
30170	1722574	1722870	2.07E-39	0.86
30170	1723669	1724442	2.92E-32	0.78
30170	1726599	1727134	2.72E-31	0.78
30170	1739474	1740502	7.44E-64	0.93
30170	1741305	1741949	7.62E-29	0.9
30170	1742191	1742507	1.19E-20	0.8
30170	1762570	1762913	6.76E-36	0.88
30170	1783765	1784852	7.20E-73	0.82
30170	1787485	1788517	1.90E-59	0.8
30170	1815093	1815632	2.32E-36	0.82
30170	1816166	1816824	1.33E-26	0.83
30170	1820372	1820979	1.38E-46	0.92
30170	1859543	1860103	6.37E-32	0.75
30170	1906180	1906662	1.51E-21	0.88
30170	2003162	2003590	3.19E-16	0.73
30170	2065591	2065948	6.51E-22	0.85
30170	2077352	2078845	5.08E-55	0.64
30170	2088397	2088953	1.38E-26	0.93
30170	2094158	2094903	7.29E-32	0.87
30170	2095202	2096033	3.03E-26	0.76

30170	2102214	2103871	5.34E-66	0.6
30170	2111765	2112087	2.26E-25	0.79
30170	2115884	2116149	6.98E-17	0.66
30170	2126002	2126357	2.89E-65	0.93
30170	2176352	2176771	2.25E-64	0.85
30170	2187260	2187672	2.75E-26	0.87
30170	2188667	2190397	4.16E-62	0.76
30170	2204716	2205054	3.86E-14	0.78
30170	2239645	2240255	1.93E-29	0.84
30170	2246206	2246511	8.11E-20	0.83
30170	2255832	2256686	5.17E-17	0.64
30170	2278256	2278928	4.29E-38	0.73
30170	2298310	2298698	6.82E-31	0.87
30170	2305645	2306028	2.65E-31	0.91
30170	2317327	2317623	2.79E-37	0.97
30170	2319579	2320645	1.39E-89	0.92
30170	2322602	2323089	5.30E-33	0.88
30170	2325053	2326190	4.17E-50	0.71
30170	2329821	2330347	2.72E-34	0.84
30170	2334630	2335079	6.57E-62	0.81
30170	2366069	2366284	3.12E-23	0.92
30170	2369920	2370689	6.80E-57	0.88
30170	2386263	2386626	1.39E-18	0.78
30170	2409571	2411154	4.86E-69	0.79
30170	2435336	2436643	4.02E-77	0.76
30170	2454104	2454489	2.91E-13	0.77
30170	2460191	2460934	6.76E-29	0.8
30170	2469031	2469978	9.62E-143	0.92
30170	2470514	2471143	5.47E-48	0.93
30170	2513115	2514082	1.70E-53	0.85
30170	2518021	2519094	1.48E-46	0.78
30170	2602877	2603409	2.69E-29	0.6
30170	2610822	2611051	3.79E-23	0.87
30170	2611357	2611850	1.87E-32	0.85
30170	2649260	2649854	4.72E-73	0.83
30170	2701565	2702212	3.79E-25	0.8
30170	2702421	2703445	4.53E-54	0.75
30170	2704028	2704984	2.42E-77	0.82
30170	2705281	2709513	0.00E+00	0.91
30170	2711575	2711993	1.75E-15	0.76
30170	2717884	2718287	3.21E-27	0.87
30170	2719601	2720067	1.63E-21	0.84
30170	2737244	2737962	1.37E-21	0.79
30170	2767769	2768363	9.93E-39	0.86
30170	2794513	2795014	5.01E-23	0.81
30170	2802513	2804600	3.66E-90	0.8
30170	2806827	2807223	4.80E-36	0.95
30170	2807579	2808037	1.60E-58	0.93
30170	2810663	2811097	5.52E-37	0.88
30170	2812068	2812316	6.94E-16	0.83
30170	2817870	2818243	4.66E-40	0.93
30170	2834245	2835636	8.71E-91	0.87
30170	2849332	2849854	1.63E-29	0.81

30170	2952024	2952362	6.44E-16	0.82
30170	2969992	2970584	1.17E-17	0.76
30170	2970660	2971463	1.01E-29	0.82
30170	2971716	2972174	4.70E-16	0.8
30170	2972469	2973164	1.59E-34	0.62
30170	3000577	3001434	7.33E-37	0.81
30170	3035818	3036926	1.05E-41	0.63
30170	3037931	3039090	7.53E-61	0.66
30170	3049977	3050857	5.67E-33	0.77
30170	3065977	3066270	1.15E-47	0.96
30170	3066656	3067021	8.90E-19	0.81
30170	3076573	3077785	1.04E-40	0.72
30170	3083141	3083686	1.05E-33	0.87
30170	3084080	3084483	2.39E-22	0.83
30170	3085462	3085986	6.05E-63	0.89
30170	3086426	3087663	2.70E-65	0.88
30170	3091048	3091303	9.12E-29	0.88
30170	3119713	3120187	7.43E-18	0.62
30170	3124072	3124973	1.32E-55	0.7
30170	3149112	3149610	2.97E-38	0.86
30170	3190472	3190936	2.97E-27	0.82
30170	3204292	3205040	8.28E-18	0.66
30170	3205263	3205910	2.60E-40	0.78
30170	3214557	3214816	5.12E-12	0.8
30170	3215925	3216945	2.79E-25	0.79
30170	3217573	3217927	3.36E-13	0.8
30170	3277045	3277491	4.40E-18	0.61
30170	3278644	3279157	6.21E-47	0.9
30170	3293806	3294057	2.42E-13	0.9
30170	3299508	3299810	2.31E-24	0.77
30170	3320623	3322277	1.06E-54	0.61
30170	3337152	3338244	2.55E-64	0.67
30170	3338553	3338957	1.37E-58	0.93
30170	3344723	3345022	3.21E-19	0.78
30170	3345355	3346091	4.23E-79	0.94
30170	3346312	3346589	9.63E-34	0.98
30170	3387142	3387774	4.88E-26	0.92
30170	3407176	3407681	1.00E-18	0.7
30170	3458211	3458930	4.98E-46	0.76
30170	3482307	3483901	1.22E-76	0.65
30170	3498814	3499679	1.31E-57	0.84
30170	3501502	3502572	2.06E-111	0.97
30170	3502794	3503098	1.10E-71	0.96
30170	3505925	3508196	4.76E-111	0.79
30170	3510210	3510632	5.86E-26	0.84
30170	3577667	3578586	1.91E-43	0.8
30170	3610297	3611541	1.13E-49	0.81
30170	3612163	3613370	1.60E-63	0.83
30170	3659970	3660539	1.79E-12	0.84
30170	3684101	3684774	9.27E-41	0.72
30170	3693408	3694036	9.45E-25	0.61
30170	3694303	3694708	3.02E-43	0.76
30170	3695755	3696003	3.60E-37	0.85

30170	3698707	3700137	2.13E-63	0.8
30170	3725888	3726782	9.44E-52	0.8
30170	3727007	3727390	2.82E-57	0.86
30170	3727599	3728258	1.12E-50	0.96
30170	3771186	3771451	1.43E-25	0.89
30170	3812974	3813651	6.32E-56	0.91
30170	3879876	3880624	1.84E-25	0.83
30170	3885894	3886215	1.59E-65	0.83
30170	3886531	3886912	3.39E-42	0.83
30170	3890999	3891306	1.46E-29	0.86
30170	3898175	3899277	2.24E-81	0.71
30170	3924238	3925319	1.84E-62	0.82
30170	3926230	3926567	3.31E-19	0.78
30170	3927947	3928185	1.33E-27	0.89
30170	3992509	3992735	3.22E-07	0.78
30170	4008999	4010438	4.07E-56	0.78
30170	4010904	4011321	6.90E-24	0.88
30170	4042349	4043075	3.60E-42	0.83
30170	4044042	4045144	1.20E-36	0.66
30170	4049043	4050032	6.13E-29	0.79
30170	4050318	4050579	3.25E-15	0.86
30170	4053098	4053872	9.73E-27	0.69
30170	4054117	4054889	8.52E-53	0.85
30170	4055098	4055961	1.81E-21	0.81
30170	4057032	4058133	4.82E-97	0.7
30170	4070888	4071798	7.63E-54	0.91
30170	4078244	4078463	3.29E-29	0.78
30170	4079274	4079690	3.20E-20	0.87
30170	4081684	4082435	3.21E-19	0.78
30170	4096655	4097574	5.43E-44	0.68
30170	4113442	4113939	5.27E-32	0.93
30170	4122640	4122843	7.94E-29	0.93
30170	4157439	4158070	1.27E-31	0.78
30170	4165174	4165567	5.58E-28	0.85
30170	4168253	4168562	2.62E-21	0.92
30170	4190833	4191401	1.45E-26	0.79
30170	4191627	4191942	1.13E-29	0.84
30170	4206378	4207617	2.38E-75	0.89
30170	4207856	4209275	1.93E-23	0.68
30170	4244649	4245273	9.49E-46	0.66
30170	4251639	4252214	3.20E-27	0.81
30170	4256376	4256812	1.03E-22	0.86
30170	4261459	4261685	3.57E-13	0.79
30170	4265094	4265818	4.30E-36	0.81
30170	4288217	4289206	1.23E-44	0.68
30170	4295977	4296956	1.47E-43	0.76
30170	4305428	4306214	2.15E-87	0.91
30170	4337456	4338580	2.04E-80	0.88
30170	4353068	4354092	7.22E-60	0.86
30170	4354519	4355120	3.61E-35	0.69
30170	4409255	4410102	4.04E-194	0.9
30170	4410349	4410924	2.24E-43	0.85
30170	4458150	4458719	1.47E-31	0.83

30170	4459720	4460991	2.15E-52	0.76
30170	4477657	4478310	2.90E-81	0.92
30170	4484635	4485214	5.55E-23	0.74
30170	4495380	4496049	3.49E-19	0.8
30170	4496407	4497102	2.78E-22	0.69
30170	4531569	4533363	2.26E-55	0.82
30170	4569968	4571590	6.23E-101	0.69
30170	4571981	4573362	1.76E-160	0.9
30170	4576220	4577284	3.76E-26	0.85
30170	4579514	4579821	4.85E-46	0.93
30170	4588377	4588765	3.78E-23	0.82
30170	4594615	4595668	1.22E-28	0.66
30170	4596439	4596914	1.31E-24	0.79
30170	4605863	4606849	1.58E-14	0.75
30170	4609939	4611714	1.22E-82	0.87
30170	4622412	4623254	6.80E-50	0.75
30170	4633840	4634180	4.40E-29	0.66
30170	4636511	4637429	2.46E-18	0.73
30170	4641497	4643286	8.68E-88	0.69
30170	4645127	4645367	5.87E-35	0.89
30170	4645570	4645796	4.33E-14	0.8
30170	4655603	4656404	5.15E-57	0.78
30171	43593	43797	1.44E-38	0.87
30171	66902	67241	5.65E-21	0.9
30171	72139	72642	8.67E-44	0.97
30171	73860	74529	1.58E-41	0.96
30171	93854	94153	5.59E-50	0.97
30171	103384	103923	9.99E-44	0.91
30171	104954	105474	5.92E-51	0.9
30171	106094	106480	8.08E-14	0.79
30171	146831	147230	5.81E-22	0.87
30171	149826	150162	3.44E-20	0.95
30171	159032	159391	1.37E-20	0.8
30171	171162	171362	1.66E-05	0.75
30171	175153	176311	2.12E-75	0.93
30171	177992	178643	7.39E-61	0.82
30171	178894	179206	8.27E-36	0.96
30171	184065	184352	3.86E-20	0.88
30171	189989	190299	9.00E-07	0.74
30171	197300	197601	2.69E-29	0.95
30171	205632	206445	1.46E-49	0.85
30171	213587	214031	2.68E-18	0.77
30171	220790	222152	2.28E-193	0.95
30171	230508	231076	3.74E-22	0.8
30171	264118	264722	8.28E-14	0.93
30171	289103	289413	5.26E-06	0.73
30171	293672	294118	8.25E-13	0.88
30171	297582	298305	8.77E-59	0.95
30171	324522	325042	1.03E-30	0.87
30171	325384	325602	9.42E-21	0.75
30171	349376	349623	2.73E-08	0.9
30172	38991	39227	7.79E-05	0.79
30172	78600	78892	1.17E-37	0.98

30172	79408	79824	7.15E-37	0.96
30172	80618	81485	7.59E-53	0.94
30172	83432	84030	1.40E-38	0.95
30172	84278	84762	2.91E-32	0.94
30172	125054	125311	8.81E-25	0.87
30172	134800	135069	3.12E-12	0.92
30172	193546	194238	5.52E-30	0.94
30174	5558	6549	1.90E-44	0.78
30174	9357	10205	1.30E-23	0.7
30174	27231	27862	4.39E-45	0.88
30174	96554	98143	7.73E-65	0.78
30174	152838	153635	1.63E-25	0.69
30174	157758	158266	2.77E-40	0.81
30174	186194	186883	3.94E-25	0.83
30174	187208	187692	1.04E-13	0.69
30174	188885	189750	3.00E-44	0.85
30174	198740	199445	4.00E-41	0.81
30174	199773	200059	5.47E-22	0.72
30174	205186	205770	1.44E-23	0.84
30174	230700	231851	7.85E-52	0.63
30174	236937	237338	9.76E-151	0.9
30174	258149	258629	9.49E-24	0.81
30174	258869	259588	1.17E-20	0.76
30174	297533	298763	1.02E-45	0.84
30174	303112	305126	1.55E-91	0.83
30174	307516	308424	5.87E-26	0.66
30174	318603	318991	1.33E-24	0.78
30174	319655	322362	4.31E-151	0.87
30174	331769	332874	2.82E-21	0.78
30174	332932	333574	2.89E-20	0.8
30174	339202	339674	2.24E-29	0.84
30174	412256	412985	7.91E-12	0.82
30174	418656	418998	1.29E-15	0.67
30174	420093	420427	3.62E-30	0.88
30174	422353	422683	7.55E-34	0.87
30174	426711	427023	1.42E-13	0.73
30174	428339	428584	1.70E-17	0.81
30174	428375	428618	1.27E-18	0.81
30174	478552	479467	3.86E-42	0.86
30174	493633	494218	1.13E-28	0.83
30174	497569	497945	5.52E-21	0.87
30174	498341	498697	4.42E-22	0.93
30174	531382	532292	3.20E-30	0.6
30174	556354	557082	2.83E-19	0.75
30174	659081	660684	2.09E-53	0.67
30174	663602	664014	1.40E-39	0.82
30174	666957	667280	6.31E-30	0.85
30174	667603	668064	1.51E-29	0.84
30174	673556	674199	2.57E-37	0.84
30174	674697	675343	3.57E-46	0.92
30174	691700	693206	1.22E-65	0.79
30174	693750	694742	3.85E-50	0.72
30174	699846	700165	2.18E-17	0.84

30174	704446	705587	7.38E-42	0.7
30174	715990	716199	2.04E-21	0.63
30174	719355	720349	3.29E-46	0.77
30174	720567	721329	9.46E-52	0.8
30174	750764	751181	1.97E-28	0.93
30174	751389	752190	2.76E-28	0.78
30174	779321	780111	5.48E-62	0.9
30174	780332	780832	4.96E-36	0.91
30174	802951	803164	1.15E-11	0.76
30174	804251	805066	8.18E-43	0.89
30174	805298	805919	1.33E-36	0.81
30174	813372	815361	3.13E-62	0.72
30174	817567	818004	2.81E-14	0.79
30174	820381	820710	4.63E-20	0.85
30174	821019	821817	1.30E-25	0.77
30174	834327	834995	1.05E-54	0.9
30174	836842	837704	5.55E-63	0.95
30174	853582	853925	8.28E-13	0.66
30174	913116	913365	7.46E-15	0.87
30174	913666	914148	5.12E-13	0.82
30174	914586	915193	5.94E-29	0.89
30174	915585	918223	2.82E-88	0.72
30174	930224	930829	3.92E-35	0.94
30174	931752	932085	1.58E-54	0.92
30174	935062	936784	4.44E-69	0.65
30174	956422	957252	1.65E-34	0.87
30174	986112	986464	2.72E-23	0.84
30174	992342	992991	4.14E-42	0.82
30174	999101	999551	4.02E-51	0.91
30174	999798	1000116	8.06E-13	0.73
30174	1001615	1002649	4.54E-39	0.87
30174	1013156	1013701	5.78E-34	0.84
30174	1016022	1016229	1.79E-27	0.96
30174	1036457	1037660	8.94E-78	0.62
30174	1038263	1038981	3.90E-78	0.93
30174	1040369	1040581	1.80E-47	0.98
30174	1082062	1082877	7.08E-62	0.89
30174	1123849	1124456	7.87E-24	0.9
30174	1124685	1125131	2.37E-13	0.84
30174	1128816	1130288	1.34E-74	0.75
30174	1148356	1149305	1.00E-24	0.78
30174	1169620	1170219	3.80E-70	0.9
30174	1175946	1176302	2.17E-27	0.94
30174	1176947	1177328	4.83E-26	0.67
30174	1190815	1191168	2.12E-22	0.95
30174	1194182	1194506	2.49E-25	0.84
30174	1209645	1210039	8.80E-58	0.91
30174	1215226	1215783	1.35E-30	0.81
30174	1219445	1219841	3.66E-23	0.79
30174	1270054	1270890	4.63E-39	0.83
30174	1311919	1312157	3.18E-07	0.81
30174	1324876	1325222	5.05E-25	0.86
30174	1326095	1327018	3.12E-22	0.81

30174	1366715	1367801	7.95E-86	0.73
30174	1376026	1377476	3.83E-50	0.7
30174	1384790	1385014	1.15E-24	0.75
30174	1435531	1435931	2.83E-70	0.88
30174	1444132	1444557	1.01E-33	0.82
30174	1448471	1448999	1.09E-50	0.94
30174	1451424	1452559	7.40E-42	0.75
30174	1456962	1457197	5.58E-17	0.78
30174	1457447	1458487	2.28E-57	0.87
30174	1462900	1463440	7.13E-27	0.86
30174	1469377	1470329	5.71E-29	0.85
30174	1472025	1472481	1.65E-36	0.81
30174	1489297	1489888	2.52E-34	0.7
30174	1575852	1576366	4.31E-14	0.82
30174	1581857	1582563	2.00E-51	0.68
30174	1582775	1583153	1.91E-36	0.82
30174	1586462	1586739	9.38E-43	0.83
30174	1597026	1599632	7.25E-110	0.71
30174	1599889	1600413	8.19E-24	0.91
30174	1609831	1610301	7.21E-32	0.89
30174	1625052	1626022	3.94E-37	0.66
30174	1628564	1630922	8.24E-128	0.84
30174	1633217	1633809	2.76E-19	0.82
30174	1634150	1635177	1.36E-79	0.89
30174	1661934	1662405	2.23E-28	0.79
30174	1663805	1664747	2.38E-61	0.82
30174	1667105	1669989	4.15E-197	0.88
30174	1671900	1672290	3.20E-15	0.88
30174	1673066	1673576	4.35E-15	0.86
30174	1675862	1677413	3.17E-75	0.85
30174	1680434	1680779	7.67E-25	0.84
30174	1681767	1682205	7.10E-37	0.85
30174	1682653	1683710	2.50E-33	0.6
30174	1715438	1715807	1.86E-23	0.83
30174	1725644	1725854	1.24E-06	0.72
30174	1727805	1728835	5.96E-86	0.84
30174	1734819	1735082	6.74E-21	0.84
30174	1740698	1741375	2.19E-53	0.92
30174	1763470	1764300	1.85E-30	0.82
30174	1764807	1765866	1.45E-68	0.7
30174	1773402	1773992	1.59E-31	0.77
30174	1774205	1774442	1.50E-18	0.73
30174	1782669	1782893	6.06E-33	0.84
30174	1798541	1800280	6.71E-129	0.86
30174	1802138	1802954	1.77E-91	0.91
30174	1809651	1810361	1.93E-90	0.79
30174	1827432	1828099	3.96E-63	0.88
30174	1882062	1882686	1.18E-34	0.81
30174	1884178	1884384	8.77E-21	0.93
30174	1885929	1886249	1.67E-18	0.89
30174	1910175	1910648	2.28E-25	0.66
30174	1927365	1927673	7.25E-61	0.9
30174	1927903	1928336	4.07E-65	0.91

30174	1928556	1928929	1.24E-43	0.86
30174	1929190	1929660	1.23E-56	0.76
30174	1943464	1945528	1.12E-94	0.86
30174	1946364	1946703	1.20E-14	0.82
30174	1962182	1962680	2.17E-51	0.93
30174	1963027	1963533	4.13E-14	0.78
30174	1969379	1969977	1.30E-10	0.76
30174	1979192	1979944	1.45E-42	0.83
30174	1982859	1983073	2.67E-33	0.8
30174	1989036	1989584	2.50E-12	0.78
30174	1989789	1990954	2.13E-62	0.86
30174	2046101	2046821	8.26E-43	0.83
30174	2048389	2049858	1.48E-66	0.89
30174	2051825	2053154	3.49E-50	0.79
30174	2061451	2062193	3.07E-57	0.9
30174	2112692	2114020	2.61E-68	0.74
30174	2115094	2116419	9.47E-71	0.9
30174	2123628	2124180	1.81E-15	0.68
30174	2161763	2162081	9.82E-27	0.88
30174	2165596	2165887	2.64E-15	0.77
30174	2186802	2187480	2.88E-40	0.87
30174	2228767	2229031	2.37E-18	0.84
30174	2274063	2274491	8.71E-22	0.79
30174	2281134	2282092	6.34E-20	0.63
30174	2285429	2285873	5.65E-32	0.75
30174	2289886	2290665	4.65E-22	0.81
30174	2309872	2310295	1.24E-10	0.79
30174	2311493	2311978	2.95E-21	0.89
30174	2316240	2316926	1.40E-50	0.88
30174	2332968	2333473	8.98E-18	0.82
30174	2344728	2345335	5.22E-13	0.77
30174	2346217	2346486	4.07E-24	0.96
30174	2365194	2365542	4.90E-20	0.77
30174	2366087	2366339	9.93E-37	0.87
30174	2367320	2367670	9.29E-36	0.94
30174	2367906	2369312	3.91E-66	0.73
30174	2372451	2372719	3.87E-13	0.85
30174	2390443	2391041	2.76E-110	0.93
30174	2391321	2392284	1.02E-132	0.95
30174	2394485	2395186	9.95E-35	0.84
30174	2409395	2409672	6.72E-26	0.92
30174	2425748	2425991	1.60E-14	0.8
30174	2426284	2426990	8.67E-46	0.77
30174	2431892	2433093	1.60E-50	0.86
30174	2439467	2440124	9.17E-32	0.84
30174	2442491	2443239	2.13E-32	0.92
30174	2443455	2443940	2.59E-40	0.9
30174	2444494	2445305	4.16E-31	0.73
30174	2467099	2467312	2.70E-09	0.72
30174	2486058	2486317	3.03E-21	0.87
30174	2487791	2488511	4.26E-20	0.87
30174	2491462	2491847	2.34E-11	0.82
30174	2493208	2494848	1.79E-102	0.94

30174	2495893	2496405	7.98E-32	0.72
30174	2502604	2502983	4.96E-37	0.94
30174	2521602	2522128	4.63E-14	0.75
30174	2524977	2525679	1.16E-32	0.82
30174	2526112	2526611	6.19E-20	0.83
30174	2527945	2528468	8.70E-28	0.87
30174	2536106	2536945	1.08E-25	0.81
30174	2559394	2560213	1.13E-43	0.84
30174	2575211	2575872	5.38E-25	0.6
30174	2576138	2577059	1.03E-28	0.75
30174	2578044	2578496	7.15E-29	0.7
30174	2593018	2594404	4.66E-37	0.85
30174	2594612	2595405	7.75E-42	0.84
30174	2632224	2632633	1.22E-31	0.83
30174	2674033	2674456	8.61E-43	0.93
30174	2676223	2676504	7.88E-24	0.7
30174	2679784	2680131	1.18E-24	0.87
30174	2692323	2692530	3.71E-08	0.82
30174	2713655	2714379	5.52E-36	0.7
30174	2717649	2718257	2.00E-34	0.88
30174	2719087	2720026	2.39E-38	0.75
30174	2722252	2722536	3.25E-34	0.91
30174	2724906	2725283	1.19E-29	0.77
30174	2727810	2728423	5.76E-22	0.81
30174	2728882	2729131	1.37E-20	0.84
30174	2747482	2748149	3.36E-38	0.89
30174	2754044	2754860	8.67E-11	0.74
30174	2773998	2774514	4.99E-12	0.8
30174	2783361	2783863	2.17E-16	0.64
30174	2902609	2902955	7.06E-14	0.89
30174	2956037	2956545	2.45E-27	0.86
30174	2959176	2959580	5.86E-16	0.9
30174	2978995	2979741	2.67E-30	0.74
30174	3002984	3003222	2.32E-19	0.82
30174	3006953	3007693	3.43E-53	0.9
30174	3007906	3008306	2.19E-11	0.82
30174	3008555	3009313	2.95E-24	0.87
30174	3011516	3011890	7.73E-13	0.83
30174	3013010	3013332	1.56E-35	0.9
30174	3015572	3016589	1.31E-55	0.76
30174	3017752	3018046	1.69E-23	0.61
30174	3030290	3030611	1.44E-34	0.87
30174	3030839	3031340	7.49E-23	0.82
30174	3036939	3037609	3.91E-98	0.9
30174	3053252	3053574	3.94E-33	0.91
30174	3057241	3058412	1.07E-176	0.81
30174	3058671	3059814	1.13E-178	0.8
30174	3066361	3066781	1.88E-41	0.62
30174	3067065	3068756	1.10E-77	0.84
30174	3082667	3083109	3.48E-20	0.65
30174	3101177	3101452	2.45E-21	0.76
30174	3110037	3112217	1.66E-105	0.87
30174	3112521	3113064	4.57E-21	0.76

30174	3118550	3118800	1.30E-11	0.72
30174	3131279	3131843	9.67E-20	0.82
30174	3136161	3136571	1.79E-11	0.72
30174	3155706	3155991	7.97E-12	0.82
30174	3156303	3156602	2.64E-15	0.79
30174	3156814	3158010	3.66E-75	0.66
30174	3160683	3161379	4.95E-77	0.83
30174	3163795	3164090	6.09E-15	0.76
30174	3179280	3179876	1.11E-27	0.6
30174	3263245	3264145	6.36E-43	0.8
30174	3289474	3290910	4.26E-40	0.62
30174	3300624	3301907	2.68E-47	0.69
30174	3304360	3304914	5.41E-28	0.79
30174	3305182	3305990	1.41E-94	0.88
30174	3319114	3319541	2.91E-17	0.75
30174	3333981	3335307	6.71E-46	0.65
30174	3336029	3336842	1.52E-149	0.93
30174	3337422	3338340	1.52E-111	0.88
30174	3343867	3344832	1.32E-49	0.88
30174	3345613	3345903	1.38E-23	0.96
30174	3351099	3351510	5.00E-18	0.8
30174	3355046	3355903	6.57E-27	0.64
30174	3365810	3366242	9.28E-17	0.84
30174	3366447	3367039	1.97E-23	0.85
30174	3369409	3369751	7.25E-17	0.79
30174	3386207	3387073	4.85E-77	0.85
30175	15009	15464	3.15E-07	0.95
30175	26212	26641	3.51E-06	0.93
30175	62576	63345	9.17E-08	0.83
30175	71715	72007	1.29E-04	0.8
30176	10410	10789	2.04E-06	0.85
30176	20480	20853	2.33E-07	0.9
30177	17477	17826	1.11E-04	0.81
30177	17509	17904	3.76E-06	0.8
30177	18596	18907	4.68E-04	0.82
30177	18719	19177	2.37E-06	0.89
30177	19650	19896	2.09E-11	0.83
30177	24871	25194	1.27E-05	0.9
30177	30400	30712	1.68E-08	0.8
30177	36382	36668	2.89E-11	0.91
30177	38047	38287	2.83E-08	0.87
30177	43279	43512	2.90E-06	0.86
30177	57627	57968	1.84E-11	0.77
30177	57630	58225	3.82E-12	0.83
30177	92263	92527	5.48E-12	0.83
30177	116868	117207	3.77E-06	0.8
30177	141179	141388	3.97E-07	0.87
30177	161608	162136	5.77E-52	0.89
30177	172940	173145	6.39E-09	0.76
30177	198962	199227	2.83E-14	0.88
30177	218745	218966	2.41E-08	0.89
30177	219040	219436	9.58E-12	0.89
30177	242862	243475	2.08E-10	0.8

30177	257198	257527	9.02E-11	0.91
30177	266818	267062	3.36E-27	0.94
30177	284497	284874	3.47E-06	0.92
30177	291251	291461	3.17E-07	0.92
30177	324518	324768	9.53E-04	1
30177	343853	344059	1.56E-04	0.94
30177	362889	363239	2.51E-06	0.88
30177	364892	365092	3.70E-18	0.81
30177	377483	377721	9.79E-12	0.8
30177	380071	380617	1.61E-28	0.81
30177	380097	380669	4.04E-31	0.81
30177	401886	402399	3.74E-07	0.93
30177	408172	408441	9.93E-74	0.93
30177	421502	421940	6.47E-06	0.83
30177	423427	423853	2.82E-11	0.94
30177	438205	438586	2.04E-06	0.96
30177	486129	486396	2.05E-05	0.74
30177	496459	496734	2.86E-07	0.75
30177	508811	509098	2.19E-07	0.92
30177	583906	584214	3.70E-34	0.86
30177	594637	594969	1.50E-25	0.79
30177	594657	595021	1.47E-31	0.82
30177	659909	660497	5.53E-10	0.8
30177	670107	670479	6.05E-09	0.96
30177	673324	674264	1.19E-05	0.9
30177	702949	703319	1.09E-25	0.78
30177	720022	720263	1.26E-25	0.92
30177	760301	760893	1.73E-18	0.81
30177	766429	766701	4.63E-16	0.86
30177	781421	781735	2.49E-18	0.84
30178	17711	18028	2.07E-17	0.82
30178	23545	24828	1.95E-33	0.75
30178	27717	28316	6.07E-29	0.86
30178	28636	29453	1.08E-42	0.88
30178	122901	123807	3.49E-37	0.81
30178	129303	130036	4.53E-29	0.6
30178	132194	132452	2.03E-13	0.72
30178	138610	139430	3.03E-45	0.86
30178	152108	152765	3.08E-34	0.76
30178	157256	158005	2.08E-27	0.81
30178	157515	158034	4.15E-21	0.79
30178	189168	189952	4.03E-73	0.85
30178	208186	208642	3.00E-25	0.78
30178	228368	229076	3.63E-26	0.92
30178	276355	276992	1.67E-39	0.74
30178	301265	301503	1.47E-23	0.86
30179	66	811	7.56E-23	0.64
30179	32154	32757	7.58E-40	0.9
30179	33984	34431	2.53E-14	0.87
30179	86461	87006	2.46E-19	0.8
30179	94983	95369	2.21E-07	0.66
30179	96867	97230	1.81E-30	0.85
30179	99181	99468	1.26E-38	0.88

30179	99680	99970	3.60E-36	0.96
30179	103698	104527	1.30E-48	0.79
30179	190139	190917	1.05E-57	0.93
30179	206323	206526	1.58E-13	0.96
30179	217362	218320	1.52E-30	0.64
30179	286825	287322	2.69E-23	0.72
30179	297383	297740	1.93E-15	0.73
30179	299551	300046	1.63E-15	0.79
30179	300477	300960	8.21E-15	0.78
30179	301371	301782	1.04E-18	0.88
30179	307277	308276	9.20E-36	0.66
30179	309487	309745	4.09E-25	0.73
30180	6121	7082	3.42E-75	0.95
30180	9021	9367	7.27E-11	0.9
30180	44090	44724	4.25E-25	0.71
30180	46489	46783	3.22E-11	0.87
30180	90452	90883	2.09E-14	0.83
30180	118526	118845	3.64E-33	0.89
30180	134598	135206	5.60E-25	0.87
30180	162633	163308	7.43E-06	0.93
30180	208976	209447	4.27E-06	0.92
30180	223758	224252	2.55E-24	0.83
30180	232996	233397	3.69E-30	0.95
30180	233653	233991	4.53E-36	0.96
30180	235318	235588	1.73E-35	0.88
30180	236101	236436	5.03E-22	0.97
30180	242316	242988	9.53E-95	0.85
30180	259332	259538	4.60E-13	0.83
30180	288134	289263	4.18E-36	0.74
30180	294101	294480	3.73E-36	0.95
30180	296829	298573	4.43E-49	0.83
30180	298783	299224	6.24E-30	0.91
30180	348391	349136	5.82E-20	0.73
30180	349387	350236	5.52E-102	0.84
30180	356249	357127	6.84E-82	0.95
30180	362433	363006	1.02E-32	0.64
30180	365701	366148	1.39E-54	0.93
30180	366754	367801	5.89E-76	0.95
30180	369025	369790	1.00E-49	0.62
30180	376650	377268	1.28E-41	0.96
30180	390087	391198	3.89E-73	0.96
30180	405232	405437	2.62E-17	0.8
30180	424104	424524	4.29E-41	0.88
30180	425129	426022	1.13E-17	0.6
30180	431056	431478	1.31E-23	0.93
30180	432014	433212	2.71E-73	0.92
30180	433899	434460	5.96E-52	0.85
30180	434901	435256	2.31E-10	0.87
30180	447427	448080	7.81E-21	0.74
30180	499614	500598	4.96E-73	0.89
30180	500922	501185	3.40E-27	0.87
30180	545690	546655	1.26E-17	0.68
30180	553282	553723	3.41E-24	0.8

30180	554348	555009	3.29E-50	0.87
30180	623895	624233	3.00E-34	0.84
30180	624458	625683	8.68E-94	0.69
30180	672088	672390	1.42E-23	0.81
30180	701155	701394	8.44E-11	0.98
30180	727818	728365	6.53E-16	0.93
30180	748250	748554	1.27E-09	0.68
30180	872114	872847	2.40E-22	0.82
30180	873159	873686	1.77E-22	0.79
30180	875667	875993	9.12E-22	0.87
30180	877089	878229	1.24E-41	0.86
30180	898085	898363	3.24E-33	0.95
30180	935507	935725	9.11E-24	0.81
30180	938629	939240	6.80E-36	0.71
30180	996467	996826	7.38E-19	0.88
30180	1004497	1004705	1.16E-14	0.9
30180	1035452	1035827	8.08E-51	0.73
30180	1036087	1036735	5.21E-116	0.9
30180	1036980	1037500	2.94E-87	0.92
30180	1038742	1039296	1.08E-28	0.88
30180	1054927	1055159	7.77E-40	0.96
30180	1055739	1056276	4.74E-43	0.97
30180	1071441	1071690	5.23E-22	0.88
30180	1072341	1072615	4.89E-63	0.94
30180	1118320	1118667	2.38E-46	0.98
30180	1119355	1119897	8.89E-41	0.93
30180	1134719	1135065	2.35E-24	0.76
30180	1169245	1170121	2.23E-28	0.79
30180	1173963	1174408	2.95E-66	0.93
30180	1184206	1184600	3.27E-35	0.91
30180	1210145	1210852	6.90E-43	0.96
30180	1211598	1212040	1.52E-20	0.93
30180	1212946	1213287	5.76E-43	0.96
30181	14907	15768	2.97E-12	0.89
30181	15561	15909	7.09E-06	0.79
30181	73044	73372	2.60E-05	0.85
30181	106910	107413	3.04E-13	0.79
30181	146098	146307	1.39E-02	0.38
30181	207233	207529	2.14E-21	0.92
30181	307839	308077	1.09E-09	0.93
30181	314091	314483	9.61E-17	0.91
30181	401188	401719	5.05E-05	0.77
30181	429608	429816	4.15E-06	0.88
30181	513011	513457	3.76E-19	0.98
30181	513738	514032	2.90E-07	0.74
30181	525992	526253	5.85E-12	0.95
30181	534113	534482	4.09E-12	0.87
30181	674515	674745	1.03E-07	0.92
30181	692417	693029	4.97E-15	0.87
30181	693341	693701	1.33E-09	0.83
30181	709282	709652	7.15E-11	0.98
30181	715175	715505	2.32E-13	0.69
30181	739271	739787	2.39E-32	0.9

30181	742677	742944	1.82E-10	0.85
30181	757914	758190	2.24E-11	0.92
30181	795829	796160	2.50E-07	0.95
30181	799477	800222	4.43E-10	0.88
30181	803245	803630	6.92E-11	0.88
30181	809698	810010	2.89E-07	0.96
30181	840117	840412	1.40E-09	0.8
30181	880276	880491	1.19E-08	0.91
30181	917554	918394	2.12E-13	0.96
30181	1019138	1019439	4.46E-07	0.87
30181	1027309	1027742	1.31E-05	0.77
30181	1046073	1046386	5.58E-08	0.81
30181	1095825	1096093	1.65E-05	0.8
30181	1123868	1124411	6.27E-17	0.91
30181	1154120	1154349	4.82E-08	0.81
30181	1154742	1155050	8.82E-13	0.83
30181	1211283	1211652	5.96E-09	0.88
30181	1215888	1216499	3.15E-11	0.83
30181	1242231	1242502	1.49E-05	0.89
30181	1326311	1326855	3.08E-13	0.83
30181	1327597	1327826	8.33E-11	0.88
30181	1350590	1350798	1.22E-09	0.8
30181	1372443	1372726	3.61E-17	0.97
30181	1377220	1377619	3.66E-05	0.77
30181	1382137	1382437	2.09E-06	0.89
30181	1405397	1405771	1.63E-11	0.84
30181	1428760	1429392	6.01E-08	0.93
30181	1444931	1445172	1.76E-15	0.88
30181	1478298	1478570	2.40E-05	0.8
30181	1499194	1499502	4.72E-13	0.95
30181	1521629	1522251	7.34E-60	0.94
30181	1539063	1539320	1.36E-15	0.86
30181	1562381	1562722	6.19E-09	0.85
30181	1586658	1587756	4.80E-18	0.78
30181	1588038	1588988	7.34E-46	0.94
30181	1589430	1589740	1.27E-18	0.87
30181	1600116	1600405	7.81E-56	0.92
30182	6845	7314	1.55E-29	0.71
30182	7615	8065	3.13E-26	0.93
30182	8282	8558	2.39E-17	0.94
30182	9054	10016	1.63E-42	0.9
30182	26739	27147	1.34E-24	0.89
30182	28293	28714	6.39E-128	0.92
30182	31734	32278	5.07E-19	0.78
30182	48338	48610	2.65E-19	0.82
30182	78205	78591	9.13E-25	0.75
30182	79534	79928	7.25E-25	0.82
30182	92988	94832	3.35E-79	0.83
30182	107148	107764	1.21E-28	0.96
30183	26186	26543	2.25E-10	0.88
30183	35143	35612	3.10E-25	0.8
30183	44950	45382	2.12E-24	0.82
30183	57526	57966	1.09E-24	0.8

30183	58261	58713	7.67E-24	0.77
30183	95923	96222	7.18E-04	0.79
30183	99192	99794	8.53E-12	0.9
30183	128911	129230	2.71E-35	0.93
30183	139630	139876	1.39E-41	0.94
30183	151754	151967	3.58E-14	0.93
30183	179650	179898	3.56E-11	0.76
30183	180755	181341	1.70E-52	0.93
30183	184660	185272	7.86E-45	0.93
30183	188289	188672	3.26E-09	0.82
30183	192620	192932	4.87E-19	0.94
30183	194350	194768	2.18E-26	0.9
30183	200579	200812	1.31E-14	0.78
30183	293524	293768	2.38E-29	0.95
30183	310109	310341	5.48E-09	0.89
30183	311502	313082	6.62E-176	0.94
30183	313876	314718	1.99E-60	0.96
30183	319223	319609	4.94E-21	0.95
30183	320787	321017	1.01E-26	0.92
30183	331529	332164	1.52E-49	0.95
30183	333164	333616	1.59E-67	0.95
30183	352891	353097	6.10E-21	0.9
30183	376646	377488	5.64E-30	0.88
30183	384531	384943	2.88E-44	0.74
30183	393940	394747	1.58E-21	0.79
30183	395743	396949	1.29E-58	0.93
30183	397319	397920	4.33E-45	0.96
30183	435767	436469	1.07E-57	0.96
30183	464550	464752	4.25E-19	0.87
30183	579473	579688	2.40E-10	0.84
30183	611345	611786	2.67E-30	0.89
30183	612894	613175	4.01E-25	0.9
30183	619571	619989	1.56E-06	0.69
30183	628028	629043	8.66E-20	0.73
30183	632484	633260	3.48E-38	0.9
30183	639919	640455	9.19E-32	0.86
30183	643477	643765	2.55E-31	0.94
30183	663999	664675	4.79E-36	0.89
30183	676759	677113	2.90E-06	1
30183	689508	689806	4.44E-07	0.77
30183	742605	742876	5.93E-03	0.82
30183	799320	799594	3.35E-04	0.8
30183	872211	872503	9.67E-04	0.79
30183	881430	881725	3.60E-08	0.91
30183	962694	963441	3.98E-42	0.67
30183	967476	968272	4.72E-56	0.9
30183	1005140	1005343	1.11E-35	0.97
30183	1007626	1008647	6.97E-90	0.93
30183	1010931	1011544	9.66E-22	0.9
30183	1013830	1014481	6.31E-22	0.84
30183	1022932	1023460	1.45E-17	0.73
30183	1031928	1032160	1.24E-11	0.82
30183	1041260	1041858	5.54E-41	0.94

30183	1047933	1048282	3.99E-09	0.84
30183	1053642	1053940	6.82E-39	0.98
30183	1071583	1072390	3.37E-30	0.94
30183	1127719	1128067	1.88E-27	0.89
30183	1151551	1151922	8.99E-09	0.83
30183	1151706	1151939	2.06E-07	0.81
30183	1184971	1185240	5.86E-09	0.78
30183	1185017	1185313	9.20E-11	0.79
30183	1192162	1192988	4.66E-33	0.83
30183	1199192	1199541	6.05E-07	0.87
30183	1210393	1210770	1.12E-05	0.86
30183	1238170	1238379	4.44E-07	0.85
30183	1255574	1255802	7.82E-13	0.83
30183	1314940	1315556	4.50E-28	0.83
30184	515216	515990	3.83E-58	0.87
30184	536658	537049	1.97E-25	0.7
30184	537360	537760	1.17E-14	0.86
30184	576384	577402	3.18E-40	0.93
30184	625648	626706	5.28E-156	0.98
30184	633038	633488	1.81E-67	0.93
30184	721781	722187	7.18E-17	0.93
30184	733515	734274	1.12E-36	0.86
30184	813017	813232	2.26E-27	0.98
30184	824390	825192	2.11E-24	0.62
30184	833342	833776	6.17E-14	0.9
30184	898110	898452	2.26E-52	0.96
30185	20199	20727	6.42E-15	0.72
30185	24060	24782	8.22E-05	0.72
30185	27493	28328	2.43E-14	0.65
30185	43331	44749	6.46E-27	0.81
30185	52474	52785	5.75E-11	0.63
30185	53081	53737	4.07E-18	0.7
30185	64620	64959	1.65E-12	0.78
30185	64652	65007	3.32E-12	0.77
30185	74110	74530	2.21E-10	0.82
30185	81474	81745	3.20E-09	0.73
30185	101418	101772	7.64E-07	0.74
30185	103377	103617	3.82E-15	0.85
30185	115547	115858	4.47E-11	0.77
30185	123500	123843	2.14E-12	0.86
30185	129748	130002	3.73E-07	0.83
30185	134587	135233	3.12E-20	0.79
30185	140163	141318	4.98E-75	0.83
30185	142063	142831	1.95E-22	0.79
30185	151123	151603	3.91E-20	0.79
30185	151287	151724	1.07E-14	0.79
30185	171541	171776	1.99E-13	0.84
30185	191839	192267	1.24E-19	0.79
30185	209735	210143	5.93E-09	0.67
30185	219735	220057	1.46E-07	0.88
30185	277773	278478	2.61E-08	0.94
30185	370605	371247	4.35E-62	0.97
30185	372848	373327	1.75E-30	0.94

30185	378220	378612	8.61E-45	0.97
30185	385166	385667	9.14E-36	0.97
30185	386016	386475	4.87E-44	0.95
30185	397485	398084	6.58E-93	0.94
30185	400233	401038	2.48E-68	0.96
30185	401251	401582	1.69E-43	0.97
30185	404852	405988	8.40E-100	0.94
30185	406201	406864	4.18E-22	0.81
30185	446083	447092	1.12E-59	0.63
30185	471130	471429	3.79E-06	0.83
30185	471149	471472	4.84E-06	0.83
30185	682307	682920	7.14E-22	0.69
30185	754791	755047	9.59E-20	0.9
30185	756463	756856	1.77E-29	0.92
30185	757123	758292	1.79E-35	0.82
30185	772568	772783	1.78E-13	0.9
30185	798275	798810	5.21E-30	0.97
30185	799112	799703	2.68E-72	0.94
30185	814780	815370	7.08E-28	0.72
30185	822572	823020	1.46E-22	0.82
30185	823233	823916	5.89E-54	0.81
30185	839847	840312	7.01E-18	0.64
30185	874925	875383	1.49E-21	0.96
30185	875612	876359	3.18E-31	0.78
30185	882689	884976	2.33E-75	0.7
30185	892650	893177	6.21E-67	0.92
30186	133198	133720	8.50E-08	0.91
30186	151399	151600	5.20E-09	0.9
30186	155873	156099	3.54E-07	0.9
30186	158628	158931	8.60E-07	0.84
30186	169530	169798	1.80E-05	0.93
30186	193683	194069	2.86E-06	0.78
30186	235292	235865	1.55E-12	0.84
30186	238136	238440	3.82E-05	0.94
30186	241517	241747	4.72E-04	0.86
30186	242174	242484	2.70E-19	0.85
30186	242516	242722	3.17E-05	0.86
30186	251446	251836	2.86E-10	0.86
30186	281385	281791	2.02E-07	0.93
30186	284422	285539	3.38E-27	0.64
30186	409479	410328	2.01E-26	0.8
30186	410355	410630	8.31E-09	0.76
30186	471155	471753	3.16E-44	0.94
30186	520681	520922	4.30E-81	0.97
30186	523482	524245	5.03E-32	0.62
30186	524612	524955	6.40E-13	0.88
30186	640671	640966	4.11E-05	1
30186	684239	684679	8.74E-10	1
30186	791370	791699	4.82E-28	0.95
30186	791998	792473	3.34E-30	0.93
30186	794396	795106	1.18E-68	0.94
30186	812763	813235	7.31E-37	0.91
30186	872238	872605	1.50E-05	0.9

30186	893647	893920	1.79E-07	0.97
30186	894122	894938	2.34E-34	0.61
30186	902140	902674	2.15E-70	0.96
30186	918452	918781	1.70E-25	0.88
30186	922271	922932	4.01E-15	0.89
30186	927939	928617	7.22E-22	0.82
30186	931209	931608	6.96E-15	0.84
30186	933283	933957	4.09E-29	0.88
30186	990896	991212	2.95E-13	0.78
30186	993202	993437	2.10E-05	0.81
30186	1004989	1005199	2.30E-11	0.91
30186	1016915	1017226	6.26E-47	0.97
30186	1018788	1019308	1.27E-36	0.95
30186	1036482	1037077	3.50E-27	0.92
30186	1039452	1040183	1.47E-33	0.64
30186	1118718	1119394	3.38E-84	0.89
30186	1132113	1132474	3.88E-08	0.79
30186	1134330	1135942	2.03E-88	0.83
30186	1177607	1177995	5.77E-10	0.85
30186	1223315	1223608	1.19E-12	0.91
30186	1260517	1260720	4.14E-05	0.73
30186	1312084	1313185	4.64E-43	0.88
30186	1316918	1317289	8.78E-29	0.96
30187	56780	57043	7.69E-05	1
30187	79966	80259	2.00E-16	0.84
30187	140819	141393	1.00E-30	0.96
30188	12124	12478	2.47E-05	0.84
30188	61238	61670	1.87E-03	0.91
30188	96880	97317	3.21E-05	0.85
30188	112571	112939	4.05E-05	0.86
30188	128603	128881	1.17E-06	0.8
30188	138335	138606	6.98E-12	0.95
30188	142584	143018	3.51E-30	0.93
30188	144113	144732	2.23E-07	0.71
30188	191832	192089	1.43E-03	0.83
30189	97718	98025	2.48E-13	0.91
30189	104137	104486	2.08E-24	0.79
30189	105299	105704	1.98E-08	0.86
30189	107911	108494	2.95E-43	0.91
30189	126595	126798	5.12E-09	0.78
30189	144799	145098	1.80E-06	0.91
30189	174909	175306	1.06E-17	0.92
30189	222715	222995	1.44E-15	0.91
30189	272997	273515	7.68E-23	0.82
30189	277765	277973	1.20E-10	0.77
30189	282946	283218	1.24E-12	0.97
30189	283517	284240	7.60E-42	0.9
30189	284506	284782	1.69E-26	0.93
30189	285196	285492	5.44E-27	0.91
30189	286107	286379	8.76E-33	0.93
30189	308760	309192	6.83E-45	0.91
30189	310996	311576	2.26E-46	0.88
30189	312603	312939	1.52E-36	0.97

30189	365403	365698	5.62E-49	0.85
30189	422217	422680	1.14E-34	0.84
30189	423332	424276	3.61E-89	0.93
30189	494036	494704	3.11E-15	0.74
30189	523912	524300	1.19E-30	0.94
30189	525501	526673	2.74E-48	0.95
30189	541307	542428	8.36E-78	0.81
30189	542695	543162	1.72E-22	0.76
30189	612202	613667	8.32E-62	0.8
30189	615006	615232	6.06E-21	0.91
30189	627620	628155	1.10E-26	0.79
30189	683957	684626	3.23E-38	0.85
30189	747703	748002	2.15E-67	0.97
30189	748528	749311	1.72E-27	0.94
30189	860509	860891	1.68E-18	0.95
30189	892222	892627	1.30E-19	0.84
30189	894030	894425	3.90E-86	0.92
30189	894872	895245	2.71E-20	0.92
30189	895543	895747	4.31E-29	0.93
30189	896916	897162	3.02E-34	0.95
30189	897477	898793	1.57E-108	0.83
30189	899043	899691	1.62E-31	0.91
30189	900574	901150	1.50E-72	0.91
30189	901565	902445	1.05E-87	0.93
30189	911030	911452	2.90E-09	0.78
30189	919839	920257	1.66E-15	0.84
30189	920624	921469	5.46E-39	0.79
30189	922230	922737	4.11E-31	0.89
30189	931635	932035	1.11E-22	0.93
30189	955945	956628	1.09E-37	0.95
30189	957137	957634	2.34E-33	0.92
30189	957966	958365	9.84E-42	0.89
30189	958778	959350	1.08E-38	0.94
30189	1044085	1044437	1.82E-05	0.93
30189	1077413	1077730	4.00E-89	0.9
30189	1091470	1091763	4.74E-12	0.9
30189	1133246	1133516	8.14E-26	0.88
30189	1136938	1137491	1.55E-26	0.82
30189	1172913	1173629	1.56E-51	0.62
30189	1174740	1175427	6.21E-61	0.83
30189	1304309	1304646	2.47E-24	0.8
30189	1405502	1405826	3.11E-06	0.84
30189	1447951	1448505	2.99E-05	0.86
30189	1511294	1511994	5.69E-10	0.79
30189	1516869	1517777	2.93E-84	0.96
30189	1518598	1520100	3.95E-104	0.94
30189	1544167	1544517	5.90E-07	0.97
30189	1619743	1620016	4.57E-04	0.84
30189	1667456	1668944	1.34E-138	0.96
30189	1683757	1684177	1.74E-46	0.98
30189	1764043	1764440	1.87E-05	0.81
30189	1765114	1765571	1.40E-05	0.78
30190	18602	19044	5.07E-07	0.81

30190	20230	20612	3.61E-20	0.91
30190	24019	24444	2.50E-18	0.86
30190	53991	54683	5.34E-20	0.68
30190	55163	55749	7.42E-68	0.93
30190	94911	95211	1.37E-17	0.82
30190	103390	104072	3.20E-61	0.83
30190	111121	111461	1.47E-09	0.73
30190	111668	112900	6.41E-55	0.84
30190	114209	114793	4.55E-60	0.94
30190	122149	122538	2.22E-21	0.81
30190	148814	149273	1.34E-13	0.8
30190	151839	152226	1.86E-57	0.86
30190	153552	155330	5.78E-72	0.63
30190	162485	162813	1.17E-14	0.78
30190	203337	204632	1.91E-108	0.9
30190	209151	209395	9.53E-60	0.95
30190	214124	214541	3.93E-27	0.9
30190	225705	226305	1.11E-96	0.9
30190	231389	231903	1.54E-15	0.8
30190	291356	293419	4.32E-87	0.8
30190	307801	308145	7.66E-15	0.82
30190	308570	309417	1.75E-49	0.86
30190	352803	353449	1.70E-27	0.75
30190	406402	406903	1.40E-28	0.85
30190	448744	448946	2.67E-13	0.93
30190	455840	456060	2.67E-11	0.79
30190	462412	462656	7.95E-30	0.92
30190	462903	463439	1.85E-52	0.89
30190	486330	486788	3.65E-47	0.97
30190	504469	505245	6.77E-47	0.76
30190	510788	511055	9.64E-24	0.75
30190	522880	523298	3.33E-19	0.82
30190	523530	523754	1.35E-20	0.93
30190	524024	524295	8.91E-30	0.88
30190	525496	526153	3.45E-18	0.8
30190	534442	535420	1.92E-27	0.69
30190	536865	537338	3.01E-21	0.83
30190	537568	537830	9.19E-22	0.83
30190	686184	686595	2.21E-25	0.97
30190	695090	695340	1.57E-06	0.68
30190	718178	719242	3.04E-61	0.86
30190	780219	780776	4.53E-19	0.79
30190	781923	782134	7.54E-117	0.9
30190	805655	806548	1.18E-59	0.96
30190	807043	807513	1.08E-43	0.9
30190	807726	807935	1.76E-32	0.86
30190	808480	809075	1.03E-26	0.67
30190	838032	838274	1.80E-09	0.76
30190	848188	849426	1.27E-94	0.86
30190	941526	942708	2.96E-40	0.64
30190	956496	956915	4.01E-17	0.91
30190	957714	958296	2.86E-16	0.75
30190	959122	959398	1.58E-35	0.95

30190	964757	965472	2.75E-39	0.92
30190	981065	981928	6.77E-50	0.81
30190	985022	985487	3.91E-13	0.73
30190	989223	989664	3.83E-24	0.84
30190	997217	998568	3.27E-50	0.84
30190	1001564	1003591	1.22E-51	0.78
30190	1012015	1012298	2.00E-15	0.83
30190	1016801	1017042	1.21E-19	0.88
30190	1019952	1021345	3.18E-66	0.64
30190	1043858	1044131	4.18E-14	0.82
30190	1051000	1051523	4.00E-27	0.86
30190	1061343	1061963	5.19E-40	0.89
30190	1083505	1084275	5.24E-41	0.87
30190	1085293	1085946	8.19E-33	0.79
30190	1096048	1097128	8.39E-37	0.79
30190	1099101	1100129	5.33E-43	0.87
30190	1135347	1136105	3.44E-25	0.8
30190	1139810	1140749	3.90E-62	0.87
30190	1145013	1146884	2.37E-120	0.94
30190	1164213	1165509	4.38E-55	0.72
30190	1175139	1176101	7.58E-67	0.87
30190	1294967	1295180	5.77E-18	0.75
30190	1295488	1295969	1.76E-25	0.77
30190	1299198	1299520	1.25E-11	0.76
30190	1311642	1311869	8.24E-51	0.89
30190	1313026	1314654	1.19E-29	0.8
30190	1316165	1316927	1.76E-50	0.61
30190	1327520	1328795	1.55E-52	0.77
30190	1340708	1341714	4.08E-64	0.75
30190	1385354	1385853	1.39E-18	0.74
30190	1449646	1450586	2.33E-99	0.81
30190	1455419	1455764	8.28E-17	0.76
30190	1461613	1461964	1.37E-23	0.72
30190	1462168	1462492	8.46E-24	0.81
30190	1491457	1492066	2.40E-41	0.75
30190	1551866	1552549	1.71E-54	0.89
30190	1554985	1555197	1.21E-27	0.93
30190	1581919	1582692	2.74E-56	0.83
30190	1586443	1586941	8.68E-34	0.91
30190	1590316	1590927	7.52E-18	0.9
30190	1601807	1602821	4.96E-85	0.88
30190	1603052	1603776	5.11E-55	0.91
30190	1630977	1631184	1.43E-07	0.84
30190	1641060	1641443	7.12E-12	0.77
30190	1687440	1687833	5.85E-17	0.7
30190	1701560	1702343	5.58E-53	0.85
30190	1748003	1748339	9.94E-14	0.88
30190	1784366	1785400	2.48E-42	0.69
30190	1786443	1787007	7.56E-29	0.79
30190	1873445	1873902	9.94E-11	0.81
30190	1904388	1904736	1.27E-28	0.8
30190	1918248	1918882	3.24E-27	0.91
30190	1922763	1923573	3.81E-64	0.91

30190	1925251	1926180	5.86E-92	0.92
30190	1926815	1927495	5.08E-48	0.97
30190	1928239	1929908	2.36E-157	0.91
30190	1930131	1931701	3.07E-97	0.65
30190	1935997	1936348	8.26E-15	0.68
30190	1940448	1940818	7.80E-31	0.8
30190	1943416	1943776	1.96E-43	0.94
30190	1943995	1945526	6.06E-68	0.83
30190	1955330	1955709	3.71E-09	0.74
30190	2012668	2012879	2.20E-20	0.65
30190	2028319	2029008	7.26E-38	0.88
30190	2029218	2029573	1.89E-35	0.8
30190	2037397	2037609	1.05E-37	0.7
30190	2058858	2059059	4.18E-19	0.79
30190	2059305	2061314	8.92E-131	0.87
30190	2064143	2064468	1.30E-18	0.88
30190	2073200	2073466	3.26E-32	0.91
30190	2089786	2090132	3.85E-16	0.78
30190	2100839	2101120	2.83E-14	0.83
30190	2105071	2105845	6.08E-34	0.79
30190	2108037	2108456	9.31E-19	0.9
30190	2125415	2125890	7.05E-09	0.79
30190	2134111	2134326	4.52E-20	0.8
30190	2143638	2144407	1.40E-53	0.88
30190	2144740	2145265	4.57E-44	0.85
30190	2177853	2178388	1.01E-17	0.74
30190	2198749	2199506	1.08E-50	0.61
30190	2224432	2225385	6.82E-57	0.85
30190	2265618	2266529	3.64E-87	0.93
30190	2311504	2312429	1.57E-53	0.81
30190	2313044	2313331	4.57E-61	0.87
30190	2314398	2314780	2.48E-50	0.89
30190	2315021	2315226	6.59E-30	0.86
30190	2315447	2316048	1.53E-71	0.86
30190	2316330	2316967	1.46E-59	0.83
30190	2319642	2320596	9.34E-39	0.91
30190	2320834	2321302	7.57E-15	0.81
30190	2328758	2331487	0.00E+00	0.94
30190	2331798	2332166	1.19E-86	0.95
30190	2332486	2333125	1.26E-44	0.88
30190	2335022	2336675	1.01E-117	0.87
30190	2352235	2353498	6.60E-60	0.77
30190	2362144	2362786	4.86E-20	0.8
30190	2374525	2374767	6.62E-13	0.63
30190	2428473	2429949	5.99E-46	0.72
30190	2435026	2436111	1.15E-65	0.82
30190	2447777	2449240	7.88E-84	0.87
30190	2474644	2474995	2.46E-16	0.74
30190	2488128	2488423	3.26E-18	0.74
30190	2493278	2493689	2.19E-29	0.8
30190	2513070	2513441	2.52E-42	0.95
30190	2546853	2547125	1.15E-17	0.83
30190	2547758	2548061	2.91E-21	0.82

30190	2558934	2559439	3.03E-18	0.83
30190	2580074	2581119	4.60E-48	0.86
30190	2582677	2583863	4.14E-68	0.91
30190	2589985	2590301	1.59E-55	0.74
30190	2604315	2604739	8.00E-85	0.91
30190	2639896	2640193	4.97E-33	0.95
30190	2641869	2642984	1.12E-37	0.66
30190	2643253	2644557	8.31E-79	0.85
30190	2666663	2666971	1.69E-12	0.79
30190	2667568	2668021	3.96E-34	0.9
30190	2682327	2682610	6.43E-14	0.82
30190	2684136	2684881	1.55E-34	0.85
30190	2691960	2692326	1.03E-18	0.83
30190	2721250	2721531	2.68E-13	0.69
30190	2730905	2731323	2.77E-21	0.8
30190	2734646	2735281	2.77E-17	0.81
30190	2745296	2746936	9.40E-48	0.79
30190	2747186	2748225	5.24E-96	0.88
30190	2772797	2773607	1.14E-29	0.74
30190	2773908	2774231	2.20E-26	0.8
30190	2776026	2777769	1.42E-120	0.64
30190	2792253	2792474	2.42E-11	0.84
30190	2799434	2799909	3.71E-16	0.82
30190	2846113	2846529	1.13E-58	0.91
30190	2871917	2872824	3.88E-55	0.69
30190	2909210	2909710	1.88E-13	0.79
30190	2909936	2910773	8.65E-40	0.81
30190	2919347	2919860	1.38E-21	0.78
30190	2947511	2947843	7.47E-19	0.87
30190	2975517	2975995	5.21E-12	0.81
30190	2992448	2992740	1.81E-16	0.94
30190	2999714	3000100	2.76E-16	0.92
30190	3005759	3007597	4.97E-103	0.92
30190	3029721	3030991	9.01E-79	0.88
30190	3032500	3033031	3.00E-36	0.83
30190	3033313	3033887	2.70E-29	0.93
30190	3034210	3034479	1.25E-29	0.91
30190	3042212	3042735	1.41E-14	0.77
30190	3052778	3053303	1.04E-22	0.79
30190	3053504	3053761	2.93E-29	0.91
30190	3062556	3063321	7.05E-58	0.77
30190	3063552	3064438	1.12E-127	0.84
30190	3065360	3065906	3.15E-58	0.78
30190	3072162	3072714	8.64E-70	0.87
30190	3170777	3172076	1.72E-44	0.65
30190	3173456	3175506	9.88E-79	0.72
30190	3176286	3176595	2.42E-15	0.81
30190	3178287	3178958	3.24E-56	0.72
30190	3199995	3200612	9.76E-25	0.79
30190	3203047	3204217	3.46E-51	0.83
30190	3213490	3214540	6.30E-38	0.8
30190	3235905	3236679	1.04E-47	0.84
30190	3236758	3237845	7.08E-38	0.8

30190	3238087	3238736	1.37E-29	0.84
30190	3256460	3256815	4.63E-10	0.78
30190	3335913	3337510	3.87E-78	0.81
30190	3355632	3356018	3.27E-21	0.84
30190	3396537	3397329	7.69E-22	0.61
30190	3414652	3415305	7.26E-40	0.65
30190	3415770	3416051	7.38E-23	0.85
30190	3416282	3417342	1.57E-75	0.92
30190	3418121	3418741	2.79E-30	0.86
30190	3419099	3421181	8.73E-94	0.79
30190	3516226	3516583	1.95E-16	0.94
30190	3618180	3618509	7.81E-41	0.77
30190	3624689	3625326	5.16E-32	0.79
30190	3653246	3654045	6.83E-35	0.89
30190	3672748	3673136	5.81E-24	0.78
30190	3673347	3673643	5.07E-10	0.71
30190	3685864	3688269	8.75E-128	0.86
30190	3697630	3697975	2.54E-15	0.78
30190	3699097	3699435	2.11E-18	0.81
30190	3730847	3731408	8.11E-19	0.84
30190	3745431	3745735	1.06E-23	0.83
30190	3781371	3781785	5.61E-17	0.9
30190	3783635	3783931	4.14E-13	0.83
30190	3791902	3792338	6.38E-05	0.77
30191	31727	32058	1.12E-02	0.74
30191	52099	52394	1.09E-26	0.97
30191	106947	107704	3.24E-27	0.98
30191	132705	133143	4.10E-05	0.85
30191	205649	206050	6.66E-06	1
30192	78638	78896	4.60E-10	0.92
30192	119458	119806	6.40E-05	0.9
30192	165453	165897	7.10E-21	0.96
30192	179460	179861	1.10E-61	0.94
30192	259409	259993	4.97E-60	0.88
30192	326554	327272	2.07E-30	0.82
30192	353430	354130	9.13E-61	0.93
30192	392972	393535	3.86E-20	0.92
30192	420307	421738	2.05E-57	0.64
30192	480309	480866	3.18E-04	0.92
30192	498544	498876	9.23E-05	0.91
30192	529427	530004	1.84E-68	0.89
30192	537500	537757	5.49E-09	0.98
30192	538389	538592	1.81E-03	0.93
30192	548975	549207	6.85E-31	0.9
30192	572738	573049	5.67E-03	0.82
30192	573815	574023	1.71E-05	0.83
30192	752403	752821	6.36E-14	0.66
30192	758372	759202	6.86E-08	0.6
30192	763108	763546	2.16E-10	0.75
30192	764147	764472	1.57E-08	0.89
30192	765410	765619	3.10E-07	0.93
30192	768382	768983	2.08E-05	0.97
30192	770838	771186	3.12E-04	0.83

30192	803676	803967	8.63E-04	0.91
30192	805494	806008	1.07E-05	0.88
30192	818414	818618	3.09E-06	0.96
30192	864465	864917	9.53E-14	0.93
30192	903307	903875	7.05E-10	0.96
30192	906103	906303	1.60E-04	0.78
30192	915146	915935	6.34E-10	0.9
30192	935399	935741	1.25E-08	0.78
30192	960895	961136	1.51E-09	0.89
30192	964898	965136	1.09E-20	0.8
30193	7043	9942	1.75E-209	0.91
30193	18513	19639	4.76E-73	0.95
30193	21250	22835	1.05E-147	0.96
30193	23103	23423	1.03E-19	0.82
30193	34874	35113	4.03E-40	0.97
30193	50438	50721	8.37E-12	0.87
30193	111373	111722	1.61E-07	0.75
30193	117707	117971	8.43E-13	0.82
30193	197830	198426	5.72E-29	0.91
30193	202268	202783	4.65E-13	0.82
30193	220747	221717	1.01E-77	0.74
30193	222187	222690	1.17E-49	0.9
30193	223344	223808	4.31E-24	0.83
30193	314154	314377	5.04E-06	0.93
30193	329942	330227	2.68E-12	0.8
30193	360411	361036	2.56E-41	0.94
30193	373229	373455	1.40E-20	0.83
30193	374047	374623	1.92E-39	0.94
30193	433437	433989	4.20E-39	0.97
30193	472606	473616	1.01E-101	0.84
30193	478175	479150	9.22E-44	0.81
30193	480092	480837	2.94E-52	0.91
30193	481130	481662	1.23E-44	0.94
30193	490991	492344	8.30E-118	0.94
30193	493538	494128	1.92E-14	0.81
30193	508388	508610	9.23E-23	0.96
30193	522312	523481	3.80E-38	0.9
30193	534330	535030	2.84E-41	0.92
30193	583240	584091	2.97E-43	0.93
30193	587018	587647	9.37E-24	0.84
30193	595315	596398	1.41E-86	0.95
30194	126538	126891	8.92E-04	0.73
30195	19601	19909	6.32E-13	0.81
30195	23029	23476	1.69E-07	0.85
30195	25651	25913	4.36E-31	0.89
30195	26515	27268	1.24E-47	0.87
30195	28657	29011	7.36E-24	0.87
30195	139580	139929	4.41E-12	0.84
30195	143390	143590	4.94E-06	1
30195	166589	167509	1.40E-19	0.81
30195	192049	192501	4.60E-09	0.81
30195	192108	192581	4.91E-11	0.88
30195	274595	275099	8.12E-10	0.86

30195	274718	275196	3.82E-11	0.85
30195	291049	291698	6.07E-29	0.87
30195	294092	294878	3.30E-36	0.85
30195	295243	295751	6.37E-34	0.86
30195	298797	299695	3.89E-27	0.83
30195	311235	312677	1.54E-58	0.8
30195	314118	314460	1.65E-28	0.89
30195	350525	350809	5.41E-05	0.84
30195	387607	389198	8.53E-94	0.75
30195	408233	408477	7.22E-17	0.97
30195	429141	429636	2.17E-12	0.77
30195	442342	442717	2.37E-10	1
30196	2442	2757	1.38E-05	1
30196	4836	5182	1.17E-06	1
30196	101973	102246	3.78E-25	0.9
30196	102452	103067	2.35E-35	0.86
30196	106166	106643	4.91E-18	0.91
30196	138953	139629	2.20E-07	1
30197	14607	15158	1.89E-08	0.93
30197	40096	40614	8.92E-13	0.98
30197	65263	65648	2.67E-22	0.82
30197	65915	66701	3.98E-13	0.79
30197	73718	74177	6.59E-26	0.9
30197	74747	75647	6.53E-60	0.9
30197	76287	76629	1.47E-37	0.91
30197	91864	92687	3.99E-48	0.95
30197	261931	262189	1.41E-07	0.82
30198	74296	74686	6.37E-22	0.88
30198	76007	76681	7.71E-52	0.89
30198	77656	77995	2.85E-20	0.85
30198	114151	114373	1.55E-17	0.87
30198	115136	115840	4.42E-31	0.77
30198	167654	168682	1.31E-33	0.75
30198	181585	182341	3.02E-75	0.94
30198	183162	183434	2.43E-36	0.92
30198	227143	227739	8.15E-24	0.88
30198	234304	234527	3.91E-07	0.92
30198	236389	236648	4.73E-21	0.97
30198	266657	267132	6.74E-60	0.96
30198	281305	281746	3.25E-23	0.92
30198	332643	333068	5.71E-27	0.95
30198	334963	335587	2.76E-70	0.97
30198	336608	337118	1.12E-24	0.89
30198	337912	338159	1.82E-56	0.94
30198	338888	339224	5.38E-25	0.78
30198	379597	379963	6.42E-23	0.96
30198	390330	390697	1.35E-26	0.86
30198	390995	391328	6.34E-13	0.97
30198	422665	422944	3.73E-21	0.86
30198	424114	424883	1.15E-50	0.9
30198	426668	426872	2.38E-21	0.92
30198	427080	427444	3.35E-19	0.9
30198	429533	430036	1.07E-41	0.92

30198	443420	443782	2.43E-16	0.8
30198	455194	455601	1.41E-33	0.95
30198	459919	460474	4.27E-46	0.93
30198	473122	473362	2.57E-05	1
30198	490227	490515	2.33E-14	0.9
30198	492794	494337	1.16E-69	0.91
30198	496566	497013	9.25E-13	0.73
30198	529827	530329	1.70E-58	0.86
30198	541275	541709	1.95E-17	0.88
30198	542641	542927	6.19E-18	0.85
30198	572715	573275	5.05E-38	0.88
30198	610595	611370	4.24E-70	0.94
30198	696400	696901	1.58E-40	0.9
30198	697838	698403	2.39E-24	0.79
30198	698912	699401	5.01E-43	0.81
30198	702311	703760	2.92E-48	0.78
30198	734163	734723	5.50E-07	0.89
30198	737503	738069	6.33E-05	0.81
30198	739058	739408	1.38E-08	0.97
30198	746900	747147	1.41E-06	0.96
30198	756983	757443	7.61E-11	0.85
30198	796966	797258	3.61E-48	0.98
30198	886731	887231	8.74E-21	0.81
30198	901563	901936	2.88E-11	0.68
30198	925064	925409	6.05E-20	0.81
30198	926011	926650	2.87E-48	0.91
30198	956445	957580	3.09E-32	0.83
30198	1051439	1051748	1.86E-11	0.9
30198	1075912	1076291	2.36E-41	0.97
30198	1076833	1077067	7.68E-13	0.82
30198	1109111	1110194	6.46E-48	0.65
30199	48585	49047	3.30E-06	0.77
30199	55283	55739	2.20E-16	0.91
30199	69192	69902	2.56E-34	0.75
30199	165893	166166	1.09E-44	0.95
30199	167112	167376	3.13E-19	0.89
30199	226371	227122	5.55E-47	0.96
30199	227333	227816	1.52E-70	0.94
30199	228221	228462	1.00E-49	0.96
30199	256478	256867	2.18E-03	0.9
30199	355744	356584	1.14E-10	0.72
30199	450235	450565	6.10E-07	1
30199	522882	523088	7.19E-11	0.89
30199	662566	662901	2.23E-18	0.68
30199	680683	680932	3.77E-35	0.86
30199	681295	681844	2.92E-22	0.95
30199	687190	688104	9.40E-43	0.93
30199	701075	701339	1.62E-11	0.81
30199	729361	729807	1.62E-19	0.81
30199	755598	756014	3.43E-63	0.92
30199	778135	779129	4.46E-70	0.95
30200	29319	29865	2.29E-08	0.7
30200	72616	73262	1.38E-81	0.95

30200	73481	73778	6.05E-20	0.95
30200	114797	115141	7.47E-21	0.94
30200	116512	116887	3.91E-22	0.95
30200	144782	145011	2.72E-13	0.79
30200	160484	160970	4.99E-38	0.92
30200	161173	162206	3.20E-195	0.95
30200	226883	227289	5.35E-04	0.95
30200	255165	256008	3.09E-20	0.74
30200	259736	260121	2.57E-10	0.79
30200	268543	269692	6.68E-40	0.86
30200	321949	322260	1.70E-22	0.84
30200	325228	325618	9.47E-41	0.95
30200	327991	328372	3.65E-35	0.7
30200	343286	343897	4.75E-49	0.96
30200	344799	345052	8.55E-36	0.95
30200	351269	352244	6.43E-43	0.97
30200	359611	359871	1.30E-14	0.78
30200	378984	379504	1.37E-14	0.71
30200	379753	380217	1.71E-34	0.93
30200	467364	467680	1.50E-13	0.97
30201	38103	38427	1.30E-21	0.93
30201	45663	45986	3.30E-09	0.85
30201	46127	46357	9.01E-06	0.95
30201	48921	49216	1.44E-08	0.97
30201	62125	62358	4.95E-07	0.84
30201	66659	67110	1.91E-09	0.92
30201	106136	106488	8.85E-07	0.9
30201	108684	109368	1.33E-20	0.78
30201	232806	233021	3.36E-21	0.98
30201	234427	235124	2.36E-43	0.88
30201	236142	236505	1.28E-38	0.98
30201	236778	237086	2.50E-28	0.97
30201	239169	239468	1.44E-35	0.96
30201	239674	240276	4.92E-30	0.9
30201	344653	345088	6.47E-10	0.86
30202	6972	7323	3.48E-15	0.86
30202	54450	54931	1.36E-37	0.81
30202	55153	55657	6.42E-26	0.86
30202	59580	60553	3.92E-27	0.89
30202	64691	65009	2.49E-34	0.92
30202	80240	80540	2.68E-06	0.81
30202	92398	92723	2.58E-22	0.89
30202	92943	93697	6.10E-28	0.63
30202	102554	103374	6.19E-31	0.82
30202	120234	120896	3.46E-28	0.9
30202	138823	139809	1.97E-70	0.91
30202	144664	144866	5.31E-11	0.96
30202	146864	147225	9.31E-28	0.85
30202	148505	148721	2.21E-29	0.87
30202	150664	151116	4.65E-36	0.93
30202	158001	158266	5.33E-30	0.93
30202	178943	179195	3.02E-31	0.9
30202	180925	181261	1.43E-54	0.93

30202	189622	190017	3.07E-19	0.9
30202	213101	213440	4.02E-49	0.93
30203	674	1013	2.68E-10	0.92
30203	51295	52014	3.18E-12	0.95
30203	52045	52284	2.81E-04	0.8
30203	88689	88965	6.38E-14	0.93
30203	122116	122498	3.05E-15	0.83
30203	135089	135300	4.15E-16	0.93
30203	137760	138155	4.47E-08	0.78
30203	171707	171956	2.66E-33	0.98
30203	195537	195916	2.30E-04	0.84
30203	298043	298333	6.97E-17	0.72
30203	300411	301004	1.17E-20	0.89
30203	331977	332454	1.46E-11	0.93
30203	333315	333886	8.30E-11	0.95
30203	333909	334152	5.05E-05	0.93
30203	337214	337780	8.98E-23	0.89
30203	380960	381620	2.60E-27	0.82
30203	392306	392593	1.24E-12	0.85
30203	412319	412998	3.05E-05	0.76
30203	443286	443560	1.37E-03	0.94
30203	450304	450587	3.34E-11	0.85
30203	497654	498093	2.74E-15	0.86
30203	498299	498603	4.11E-04	1
30203	509521	509792	2.29E-05	0.83
30204	21170	21786	1.02E-50	0.91
30204	23189	24063	1.84E-12	0.73
30204	25326	26925	2.41E-51	0.8
30204	37556	38086	1.43E-52	0.76
30204	49471	50451	1.04E-27	0.69
30204	56411	56662	1.53E-40	0.9
30204	59594	60233	6.21E-29	0.8
30204	74298	74830	3.82E-58	0.94
30204	76910	77521	1.61E-27	0.81
30204	109653	110101	1.38E-25	0.84
30204	116115	116866	3.84E-42	0.85
30204	117073	118777	3.11E-92	0.85
30204	122813	123406	1.42E-16	0.61
30204	130909	131703	1.32E-31	0.78
30204	131993	132482	2.83E-45	0.82
30204	134238	135155	4.47E-68	0.63
30204	139609	140328	5.02E-40	0.84
30204	229767	230307	5.42E-55	0.78
30204	267467	267976	2.84E-33	0.78
30204	269511	270254	3.17E-79	0.93
30204	270459	271148	2.35E-20	0.94
30204	271368	272562	1.06E-33	0.8
30204	292963	293836	2.79E-39	0.84
30204	295650	297652	2.03E-140	0.87
30204	303167	303448	6.51E-13	0.86
30204	339147	340152	1.74E-44	0.79
30204	340407	341112	2.60E-42	0.71
30204	358761	360511	6.33E-87	0.75

30204	364034	364262	2.45E-16	0.79
30204	373895	374334	5.40E-11	0.66
30204	374582	374907	1.92E-26	0.76
30204	375145	375595	6.40E-23	0.86
30204	375853	376092	9.38E-15	0.64
30204	382179	383047	5.13E-37	0.75
30204	384429	384948	1.06E-32	0.88
30204	390010	390427	6.00E-56	0.91
30204	412772	413551	7.18E-29	0.67
30204	417140	418476	1.65E-56	0.67
30204	423238	423476	3.18E-18	0.94
30204	427924	428582	2.91E-23	0.62
30204	523934	524140	1.00E-15	0.8
30204	544075	545788	2.83E-73	0.8
30204	571880	572483	1.52E-32	0.92
30204	573099	574015	1.31E-29	0.68
30204	605830	606257	7.30E-52	0.79
30204	608919	609534	1.08E-35	0.82
30204	609867	610345	1.57E-30	0.74
30204	610601	612531	1.32E-150	0.88
30204	617421	617823	1.68E-14	0.8
30204	628006	628450	4.88E-21	0.9
30204	641259	642064	6.54E-63	0.93
30204	642976	643251	5.04E-36	0.81
30204	651292	653210	6.62E-123	0.83
30204	667216	667832	4.07E-25	0.81
30204	721813	722736	2.98E-48	0.82
30204	726768	727222	1.86E-34	0.9
30204	732439	733130	5.67E-30	0.86
30205	6747	7680	7.14E-54	0.86
30205	30732	31732	3.27E-38	0.87
30205	32680	32988	9.61E-15	0.78
30205	52076	52800	2.14E-24	0.83
30205	53143	53546	3.67E-26	0.92
30205	55628	56011	3.77E-16	0.75
30205	58857	59173	1.33E-11	0.72
30205	62537	63871	6.46E-114	0.91
30205	66673	67095	2.43E-26	0.94
30205	75771	75993	9.75E-25	0.91
30205	118483	119393	1.10E-163	0.95
30205	122171	123064	1.65E-91	0.98
30205	136179	136391	1.52E-60	0.95
30205	138014	138362	1.00E-64	0.95
30205	139158	140352	5.25E-56	0.83
30205	142848	143259	6.97E-66	0.91
30205	188655	189218	1.63E-24	0.93
30205	190964	191438	9.29E-32	0.98
30205	193377	193987	9.37E-63	0.96
30205	194301	194797	1.12E-25	0.91
30205	202222	202737	1.40E-07	0.8
30205	207139	207908	5.26E-80	0.95
30205	223331	224045	9.10E-27	0.62
30205	226310	226947	2.07E-45	0.81

30205	228027	228786	1.76E-43	0.92
30205	229485	229955	1.36E-18	0.96
30205	256400	256904	4.69E-26	0.92
30205	257280	259141	7.10E-63	0.74
30205	289476	289844	6.60E-114	0.98
30205	317509	317823	4.34E-04	0.94
30205	362655	362899	1.53E-25	0.97
30205	378946	379169	1.93E-22	0.86
30205	380851	381723	4.18E-32	0.79
30205	404920	405584	5.08E-35	0.85
30205	409550	409862	3.93E-20	0.91
30205	412095	412525	4.31E-28	0.94
30205	419044	419491	2.77E-27	0.86
30205	442019	442434	4.46E-12	0.63
30205	463821	464600	4.05E-28	0.87
30205	473947	474486	9.48E-09	0.92
30205	479390	479641	1.17E-10	0.82
30205	481466	482133	2.21E-11	0.77
30205	482415	482992	1.45E-64	0.95
30205	506774	507394	5.95E-47	0.93
30205	510989	511835	4.01E-27	0.65
30205	512263	512805	5.04E-32	0.95
30205	513013	513755	1.03E-39	0.95
30205	542641	543117	1.43E-13	0.6
30205	553289	554176	3.48E-46	0.8
30205	562863	563313	8.51E-31	0.77
30205	584308	584605	8.16E-26	0.87
30205	593830	594530	1.54E-58	0.89
30205	612481	613183	2.39E-60	0.62
30205	613461	613759	2.95E-14	0.76
30205	614172	614901	1.28E-35	0.92
30205	615227	615671	9.54E-23	0.69
30205	615983	616656	1.85E-29	0.63
30205	628821	629640	3.01E-41	0.92
30205	636773	637497	2.17E-27	0.86
30205	640644	641060	1.19E-21	0.81
30205	653726	654289	7.24E-10	0.78
30205	674842	675096	7.88E-07	0.86
30205	698200	698654	3.68E-09	0.89
30205	700450	700774	1.38E-03	1
30205	719828	720106	3.78E-10	0.85
30205	737120	737343	6.24E-04	1
30205	752762	753172	3.90E-12	0.81
30205	756569	757090	8.32E-39	0.89
30205	791296	792243	6.13E-46	0.86
30205	821366	821618	4.76E-10	0.86
30205	835583	835832	1.35E-04	1
30205	878349	878848	2.02E-25	0.95
30205	879091	879708	3.78E-41	0.87
30205	881450	882213	1.88E-46	0.86
30205	883063	883474	2.51E-51	0.8
30205	951799	952367	2.69E-20	0.2
30205	962270	962673	6.35E-04	0.94

30205	988810	989613	1.26E-30	0.94
30205	1066364	1066596	2.07E-08	0.68
30205	1105824	1106176	9.29E-08	0.81
30205	1105953	1106243	1.52E-07	0.79
30205	1118880	1119102	7.81E-06	0.97
30205	1128839	1129709	6.26E-21	0.86
30205	1195715	1196373	4.04E-12	0.69
30205	1200428	1200863	6.63E-35	0.9
30205	1229189	1229484	9.13E-07	0.8
30205	1257526	1258146	2.58E-18	0.81
30205	1259434	1260478	3.51E-58	0.87
30205	1265267	1265824	2.80E-50	0.98
30205	1288250	1288794	2.84E-05	0.68
30206	2501	2853	3.02E-32	0.96
30206	3153	3415	1.04E-20	0.89
30206	4892	5143	6.51E-10	0.88
30206	13332	14220	9.63E-53	0.71
30206	14434	14793	1.95E-10	0.79
30206	15055	15310	1.62E-10	0.86
30206	15677	16319	4.64E-23	0.89
30206	17193	17619	6.99E-31	0.91
30206	55860	57380	9.22E-76	0.84
30206	79658	80184	1.01E-37	0.78
30206	93884	94343	4.98E-09	0.71
30206	95243	95565	4.00E-07	0.64
30206	98797	99247	7.53E-53	0.96
30206	99572	100357	6.84E-102	0.92
30206	115136	115383	1.77E-05	0.89
30206	157235	157672	1.24E-38	0.9
30206	157910	158292	1.08E-12	0.91
30206	160725	161208	6.85E-19	0.88
30206	161456	162408	1.90E-28	0.69
30206	187925	188403	1.03E-11	0.76
30206	190491	191024	3.47E-21	0.81
30206	220340	220857	4.56E-37	0.62
30206	223717	223941	4.56E-31	0.94
30206	224559	224847	1.54E-29	0.95
30206	253884	254330	9.11E-07	0.74
30206	261333	262368	3.62E-37	0.73
30206	265555	265835	1.05E-54	0.83
30206	279645	280381	3.88E-32	0.96
30206	280632	281216	3.85E-40	0.93
30206	334260	334551	4.69E-38	0.84
30206	366078	366860	3.00E-49	0.96
30206	367339	367554	6.61E-44	0.91
30206	377695	378035	1.48E-23	0.89
30206	396201	397380	1.65E-47	0.91
30206	431558	431812	2.10E-15	0.69
30206	459196	459746	5.82E-25	0.86
30206	510911	511359	4.04E-22	0.94
30206	517677	517910	2.93E-07	0.83
30206	568219	568761	2.06E-17	0.61
30206	589654	590361	2.61E-21	0.9

30206	609038	609261	6.72E-09	0.96
30207	210802	211058	3.21E-09	0.9
30208	33344	33986	9.08E-16	0.9
30208	39460	39892	1.13E-06	0.82
30208	39633	39975	2.62E-08	0.78
30208	100974	102179	3.78E-39	0.78
30208	106864	107153	1.30E-15	0.97
30208	187748	188011	1.54E-11	0.88
30208	194595	194862	2.99E-07	0.8
30208	228609	228946	5.83E-04	1
30208	269860	270394	2.64E-19	0.82
30208	334448	334944	7.16E-12	0.79
30208	334727	335001	1.19E-07	0.77
30208	344421	345031	1.02E-14	0.91
30208	345204	345413	5.53E-18	0.77
30208	395968	396385	9.22E-07	0.84
30208	438726	439035	1.19E-10	0.93
30208	463041	463279	8.48E-05	0.85
30208	510300	510516	4.85E-05	0.9
30208	571904	572225	6.09E-05	0.74
30208	584983	585255	1.37E-04	0.9
30208	660080	660364	2.02E-06	0.73
30208	685517	685889	2.97E-20	0.88
30208	770141	770463	5.12E-09	0.87
30208	771114	771365	1.95E-12	0.84
30208	779867	780206	1.76E-05	0.75
30208	808053	808900	2.16E-12	0.9
30208	836058	836945	3.95E-19	0.66
30208	869865	870227	3.98E-05	0.96
30208	884911	885158	1.39E-05	0.87
30208	887531	888314	3.97E-12	0.91
30208	959144	959377	3.87E-03	1
30208	962639	962866	2.93E-26	0.71
30208	1007716	1008002	3.75E-05	0.89
30208	1051579	1052261	2.49E-29	0.88
30208	1054037	1055103	4.00E-60	0.92
30208	1072064	1072268	4.26E-05	0.82
30208	1085264	1085632	5.18E-06	0.81
30208	1093019	1093229	3.82E-11	0.83
30208	1104592	1104974	2.41E-08	0.36
30208	1131481	1131712	3.07E-07	0.82
30208	1145833	1146211	3.66E-05	0.94
30208	1176542	1176775	6.81E-07	0.84
30208	1194966	1195190	1.27E-09	0.84
30208	1216997	1217278	6.29E-09	0.87
30208	1241238	1241474	1.04E-13	0.87
30208	1321663	1322050	1.11E-08	0.92
30208	1328004	1328294	4.23E-05	0.81
30208	1331955	1332221	1.15E-07	0.93
30208	1337330	1337539	1.12E-03	0.84
30208	1341403	1341660	1.37E-05	0.91
30208	1354742	1356053	8.71E-16	0.72
30208	1359007	1359776	9.06E-37	0.83

30208	1390639	1391090	6.20E-19	0.85
30208	1444733	1444966	2.04E-05	0.85
30208	1453197	1453500	5.91E-11	0.8
30208	1502023	1502269	6.25E-07	0.96
30208	1519454	1519798	1.08E-17	0.96
30209	31466	31805	1.04E-08	0.93
30209	88170	88447	1.64E-05	0.86
30209	131863	132198	2.71E-26	0.92
30209	184421	184733	5.82E-32	0.93
30209	190679	191071	4.30E-25	0.96
30209	192093	192988	5.92E-89	0.95
30209	202695	202922	1.73E-52	0.96
30209	203696	204693	4.85E-104	0.93
30209	205479	206914	1.18E-66	0.95
30209	211269	211915	1.07E-14	0.94
30209	243255	243711	2.00E-18	0.82
30209	255177	255458	2.01E-25	0.84
30209	257054	257409	6.41E-10	0.73
30209	274405	274747	4.11E-17	0.77
30209	280468	280714	1.69E-13	0.81
30209	300676	301625	1.40E-23	0.78
30209	307194	307524	5.31E-18	0.27
30209	310910	311481	6.50E-16	0.79
30209	314027	315491	4.90E-69	0.74
30209	483984	484288	1.23E-06	0.64
30209	550994	551338	5.67E-15	0.8
30209	551548	551917	3.14E-57	0.96
30209	553953	555218	1.26E-105	0.96
30209	571962	572248	2.00E-21	0.76
30209	586911	587182	9.78E-14	0.88
30209	610548	610836	1.29E-36	0.91
30209	612957	613400	2.44E-41	0.95
30209	615016	616086	2.74E-35	0.8
30209	638134	638355	7.01E-08	0.86
30209	661713	662086	2.90E-35	0.94
30209	697782	698843	1.13E-49	0.85
30209	701528	702714	1.17E-33	0.73
30209	712083	712599	3.05E-39	0.98
30209	718217	718488	1.61E-40	0.93
30209	744358	745447	3.42E-49	0.77
30209	771764	772781	2.08E-165	0.92
30209	774447	774867	3.51E-27	0.71
30209	807856	808074	6.45E-10	0.93
30209	853307	853709	2.00E-16	0.95
30209	930935	931478	3.99E-10	0.93
30211	19743	19977	2.62E-08	0.96
30211	27834	28205	2.75E-08	0.96
30211	36355	37195	4.77E-08	0.63
30211	83584	84020	3.25E-11	0.92
30211	86422	86790	2.92E-05	0.79
30211	104065	104451	3.11E-04	0.89
30211	105843	106192	6.54E-06	0.86
30211	108031	108411	4.06E-16	0.91

30211	112412	112918	1.60E-06	0.71
30211	220984	221312	1.13E-11	0.87
30213	13645	13951	3.35E-04	0.84
30213	112400	112782	2.69E-15	0.86
30213	113673	114063	8.19E-06	0.88
30213	126208	126446	6.40E-102	0.9
30213	128663	129231	3.71E-54	0.75
30213	134739	134951	1.06E-90	0.81
30213	142030	142755	8.72E-84	0.85
30213	143133	143730	9.41E-52	0.82
30213	149380	149755	9.15E-12	0.89
30213	159522	159952	6.34E-04	0.83
30213	166237	166547	2.92E-06	0.95
30213	173328	174146	1.98E-08	0.96
30213	193355	193578	2.92E-04	0.7
30213	196272	196710	3.57E-05	1
30213	202316	203155	1.43E-13	0.99
30213	219787	220458	4.40E-10	0.94
30213	231111	231533	1.55E-06	0.91
30213	237757	238669	6.05E-18	0.89
30213	244788	245145	4.74E-04	0.38
30213	252621	252913	2.49E-03	0.76
30213	286060	286382	2.89E-09	0.84
30213	298139	298712	2.96E-15	0.88
30213	304475	304703	3.46E-06	0.89
30213	327324	327643	1.90E-06	0.93
30213	329844	330573	2.48E-10	0.82
30213	346859	347098	9.28E-08	0.92
30213	376416	376899	1.16E-12	0.83
30213	384343	384697	5.41E-12	0.98
30213	385231	385510	5.22E-06	0.86
30213	387122	387350	3.25E-04	0.95
30213	403015	403513	2.25E-05	0.87
30213	408948	409273	7.01E-11	0.85
30213	433295	433538	0.00E+00	0.79
30213	441526	441942	7.43E-07	0.91
30213	443174	443397	5.74E-14	0.81
30213	472344	472606	3.04E-14	0.81
30213	483407	483768	5.10E-67	0.87
30213	495096	495340	5.41E-09	0.84
30213	495191	495601	3.61E-09	0.8
30213	510849	511323	2.67E-12	0.88
30213	539887	540533	1.78E-17	0.65
30213	574342	574805	4.80E-04	0.96
30213	602058	602407	2.81E-08	0.96
30213	602353	603031	2.64E-24	0.95
30213	618165	618396	1.21E-07	0.9
30213	622202	622550	1.41E-12	0.62
30213	627917	628180	2.20E-14	0.82
30213	629089	629580	9.70E-37	0.9
30213	633839	634095	5.89E-27	0.91
30213	637602	638407	9.36E-14	0.61
30213	667703	668073	1.36E-73	0.93

30213	671154	671628	2.16E-14	0.76
30213	688271	689105	9.89E-11	0.68
30213	719808	720404	7.83E-59	0.96
30213	729471	730049	8.15E-28	0.93
30213	760202	760506	3.97E-13	0.88
30213	768882	769376	5.10E-44	0.79
30213	770706	771462	1.68E-35	0.74
30213	790095	790476	1.11E-36	0.93
30213	790950	791300	2.47E-14	0.76
30213	950357	950967	1.40E-18	0.8
30213	952463	952784	1.05E-23	0.8
30213	975444	975819	4.45E-22	0.91
30213	976022	976257	3.87E-22	0.93
30213	976623	977153	2.37E-43	0.82
30213	1035953	1036372	5.94E-05	0.98
30213	1046508	1047266	2.25E-20	0.9
30213	1060654	1060870	3.23E-25	0.95
30213	1061106	1061365	4.20E-33	0.88
30213	1061655	1062821	2.55E-60	0.91
30213	1065830	1066088	4.23E-17	0.92
30213	1071378	1071657	4.26E-09	0.82
30213	1074159	1074648	3.77E-18	0.92
30213	1087119	1087615	6.30E-05	0.88
30213	1105832	1106727	3.83E-25	1
30213	1108623	1108848	2.25E-10	0.87
30217	4215	4529	2.09E-34	0.79
30217	8442	8764	3.20E-26	0.71
30217	10833	11628	6.66E-63	0.71
30217	34859	35593	4.16E-53	0.85
30217	35952	36727	1.18E-90	0.9
30217	40385	40722	1.72E-25	0.77
30217	40964	41424	1.79E-17	0.92
30217	46417	47001	5.67E-31	0.81
30217	75181	75507	1.19E-25	0.68
30217	82178	83422	1.22E-50	0.75
30217	91682	91913	3.88E-62	0.84
30217	95168	95883	1.01E-23	0.78
30217	98838	99324	6.43E-38	0.83
30218	5589	5980	9.30E-06	0.97
30218	8857	9179	1.57E-07	0.98
30218	54639	54970	3.12E-07	0.72
30218	205319	205523	3.43E-08	0.93
30218	223380	224119	1.58E-05	0.87
30218	393711	393970	6.54E-06	0.79
30218	512312	512863	3.19E-17	0.87
30218	675307	675725	2.79E-05	0.88
30218	791841	792097	5.68E-06	0.96
30218	831425	831939	9.78E-25	0.86
30218	856362	856711	5.29E-19	0.69
30218	926324	926928	8.05E-07	0.92
30218	942833	943321	1.56E-15	0.88
30218	948810	949073	4.72E-08	0.97
30218	956676	957090	5.80E-16	1

30218	978829	979160	5.84E-18	0.98
30218	1005269	1005491	1.59E-05	0.92
30218	1033215	1033778	3.37E-25	0.72
30218	1087755	1088131	4.38E-18	0.79
30218	1176236	1176916	1.19E-16	0.88
30218	1178328	1178546	1.85E-05	0.88
30221	36470	36704	2.48E-15	0.9
30221	77837	78201	1.44E-05	0.84
30221	91982	92803	1.90E-11	0.79
30221	94412	94734	2.46E-04	0.76
30221	98879	99200	7.50E-10	0.95
30221	110344	110623	9.86E-05	0.8
30221	141004	141213	3.42E-17	1
30221	183448	183648	5.26E-08	0.83
30221	194265	194627	5.31E-06	0.93
30221	197048	197639	1.53E-15	0.72
30221	215462	215941	7.84E-15	1
30221	225635	226271	4.35E-23	0.6
30221	264120	264735	5.22E-15	0.96
30221	274588	274848	7.07E-08	0.91
30221	282439	282741	5.48E-14	0.88
30221	321185	321548	5.12E-08	0.94
30221	329950	330297	2.25E-37	0.92
30221	339620	341068	1.48E-147	0.93
30221	341627	342047	1.19E-28	0.84
30221	374031	374674	4.29E-07	0.86
30221	386078	386306	8.05E-55	0.85
30221	387707	388109	1.42E-03	0.79
30221	392252	392904	7.99E-48	0.65
30221	406182	406495	5.01E-15	0.85
30221	431325	431551	5.32E-11	0.83
30221	436388	436846	1.10E-09	0.92
30221	465030	465652	4.88E-42	0.94
30221	494376	495055	6.93E-41	0.78
30221	496357	496864	4.07E-19	0.91
30221	570105	570400	4.21E-34	0.89
30221	575692	576151	1.42E-103	0.92
30221	591408	591738	6.04E-89	0.94
30221	662210	662432	1.80E-32	0.97
30221	722327	722546	5.20E-27	0.96
30221	737089	737388	7.92E-07	0.86
30221	743738	744259	4.20E-14	0.76
30221	765235	765725	3.57E-10	0.66
30221	766087	766556	1.12E-27	0.89
30221	768876	771418	8.76E-114	0.78
30221	850246	850495	2.44E-15	0.84
30221	850736	851161	1.41E-35	0.88
30221	851810	852124	6.15E-23	0.91
30221	854965	855633	1.17E-65	0.95
30221	857128	857663	7.13E-35	0.86
30221	866601	866970	4.69E-12	0.88
30221	867861	868099	3.13E-06	0.76
30221	867931	868219	7.35E-14	0.84

30221	869642	869949	3.28E-11	0.9
30221	903864	904375	2.13E-09	1
30221	909060	909549	4.55E-22	0.89
30221	935944	936185	1.37E-09	0.79
30221	1012820	1013110	2.46E-45	0.94
30221	1017043	1017429	1.92E-25	0.96
30221	1017671	1018134	1.03E-11	0.84
30221	1054939	1055167	2.48E-24	0.88
30221	1058378	1059720	2.92E-52	0.78
30221	1095699	1097151	8.28E-87	0.84
30221	1097969	1098926	5.95E-19	0.81
30221	1102508	1103096	5.68E-55	0.98
30221	1103388	1104563	3.56E-52	0.9
30221	1104765	1106049	2.86E-142	0.95
30221	1118833	1120080	4.15E-105	0.96
30221	1120365	1122141	6.53E-261	0.96
30221	1138927	1139204	9.06E-17	0.79
30221	1139008	1139394	4.27E-20	0.79
30221	1143057	1143870	1.68E-21	0.84
30221	1144652	1145310	2.00E-18	0.79
30221	1151054	1152184	4.61E-97	0.92
30221	1156820	1157590	7.17E-12	0.61
30221	1157975	1158350	1.59E-82	0.92
30221	1159885	1160164	2.72E-16	0.92
30221	1160452	1161096	4.22E-94	0.96
30221	1169769	1170108	2.16E-44	0.94
30221	1186176	1186417	5.06E-08	0.88
30221	1223043	1223296	9.34E-11	0.79
30221	1234064	1234768	1.64E-13	0.64
30221	1245139	1245502	9.02E-06	0.78
30221	1274623	1275692	3.48E-57	0.89
30221	1410121	1410854	4.53E-07	0.88
30221	1422472	1422948	1.22E-11	0.78
30221	1442679	1443278	3.20E-13	0.84
30221	1455688	1456124	3.73E-05	0.91
30221	1456746	1457480	1.35E-10	0.95
30221	1461291	1461691	6.97E-06	0.88
30221	1474590	1474855	2.10E-04	0.6
30221	1581803	1582102	6.85E-08	0.63
30221	1601167	1601624	9.60E-40	0.94
30221	1615517	1615795	1.09E-39	0.83
30221	1620129	1620350	1.60E-38	0.93
30221	1637620	1638082	5.60E-35	0.95
30221	1679346	1679565	1.73E-11	0.91
30221	1714924	1715149	1.46E-16	0.89
30221	1758398	1758725	2.40E-06	0.9
30221	1772006	1772212	1.96E-04	0.87
30221	1826076	1826284	5.13E-30	0.98
30221	1850852	1851342	5.67E-41	0.95
30221	1852191	1852721	1.66E-103	0.88
30221	1856436	1857081	3.26E-34	0.9
30221	1858595	1859087	1.24E-31	0.91
30221	1864365	1864861	9.59E-32	0.87

30221	1867021	1867654	8.46E-32	0.9
30221	1901341	1901633	2.07E-07	0.9
30221	2017404	2017797	1.50E-11	0.98
30221	2063603	2063880	2.50E-44	0.87
30221	2068438	2069241	3.32E-54	0.89
30221	2122875	2123234	3.40E-06	1
30221	2133812	2134150	2.88E-12	0.89
30221	2137122	2137475	1.34E-34	0.95
30223	25434	25703	1.21E-26	0.9
30223	212449	212826	5.16E-16	0.93
30223	290636	290922	4.17E-05	0.88
30223	295578	296000	3.35E-06	0.84
30223	296000	296230	2.86E-04	0.79
30225	34492	34945	3.22E-28	0.95
30225	48328	48806	5.46E-30	0.91
30225	51705	52410	2.57E-69	0.94
30225	52663	53914	2.33E-115	0.92
30225	75740	76076	3.64E-04	1
30225	128771	129137	1.72E-07	0.74
30225	221433	221846	2.16E-20	0.68
30225	243034	244150	3.16E-52	0.94
30225	300990	301450	3.28E-05	0.81
30225	321662	322369	7.10E-25	0.78
30225	353717	353933	1.41E-12	0.94
30225	409697	410175	4.51E-51	0.95
30225	410411	410689	6.01E-33	0.93
30225	410893	411396	7.14E-43	0.92
30225	411617	411961	3.10E-37	0.98
30225	415912	416230	2.75E-09	0.9
30225	437074	437466	1.99E-03	0.9
30225	444440	444939	3.91E-06	0.81
30225	495485	495889	1.09E-07	0.88
30225	507959	508734	1.70E-18	0.79
30225	533720	534241	1.14E-47	0.77
30225	584203	584807	7.12E-28	0.83
30225	589299	589993	1.96E-90	0.94
30225	593235	593935	1.93E-46	0.93
30225	594355	594578	1.18E-20	0.89
30225	612635	612949	1.46E-05	0.88
30225	622046	622343	8.44E-14	0.91
30225	645561	645772	5.25E-06	0.89
30225	701972	702274	8.39E-11	0.85
30225	747625	747925	2.96E-10	0.78
30225	761210	761623	1.66E-38	0.97
30225	766832	767081	8.81E-04	0.8
30225	766881	767142	2.80E-04	0.8
30225	806383	808613	3.25E-174	0.91
30225	813367	813913	5.14E-14	0.98
30225	818176	818883	4.55E-40	0.99
30225	822743	823237	4.61E-08	0.81
30225	822795	823239	1.69E-07	0.86
30225	823937	824833	3.71E-47	0.92
30225	831179	831709	9.01E-30	0.93

30225	835480	835736	2.74E-18	0.82
30225	836656	836981	7.24E-29	0.91
30225	885447	885698	2.68E-25	0.72
30225	890448	891156	5.66E-39	0.88
30225	891387	891882	2.93E-25	0.96
30225	926576	927411	4.08E-69	0.93
30225	927643	928146	1.07E-31	0.91
30225	929459	930180	7.71E-59	0.88
30225	952112	952450	9.72E-22	0.92
30225	952875	953865	1.96E-41	0.89
30225	954428	954917	2.14E-33	0.92
30225	983700	984088	2.83E-17	0.89
30225	985391	985724	8.66E-59	0.93
30225	988871	989760	6.09E-48	0.77
30225	992278	992563	2.25E-32	0.84
30225	992995	993633	6.52E-32	0.89
30225	993920	994666	3.74E-47	0.9
30225	995504	996312	4.10E-29	0.69
30225	996855	997505	5.89E-49	0.95
30225	999859	1000113	3.86E-17	0.96
30225	1000708	1001234	7.38E-12	0.92
30225	1006096	1006632	9.18E-60	0.92
30225	1006871	1007379	3.17E-30	0.91
30225	1013498	1014056	1.51E-06	0.84
30225	1036397	1037160	4.98E-09	0.71
30225	1098846	1099451	1.46E-17	0.82
30225	1101063	1101733	1.55E-26	0.64
30225	1143140	1143513	1.28E-19	0.71
30225	1153283	1153521	1.69E-05	0.86
30225	1238620	1239162	1.36E-06	0.68
30225	1262734	1262993	1.09E-18	0.85
30225	1264417	1264664	1.14E-37	0.9
30225	1294727	1295379	2.23E-05	0.73
30225	1348658	1349274	7.20E-50	0.81
30225	1349512	1350248	7.89E-85	0.93
30225	1350534	1350982	2.63E-37	0.76
30225	1356355	1357120	4.03E-24	0.89
30225	1506292	1506708	1.05E-06	0.94
30225	1572192	1572810	2.28E-07	0.86
30225	1582246	1582749	1.65E-13	0.94
30225	1598500	1599235	1.56E-20	0.79
30225	1665694	1666048	1.23E-09	0.84
30225	1714624	1714921	1.21E-12	0.99
30225	1725877	1726190	1.21E-05	0.86
30225	1794687	1795096	1.03E-06	0.97
30225	1810938	1811253	1.62E-04	0.88
30225	1842685	1843055	1.09E-08	0.91
30225	1859143	1859396	4.13E-08	1
30225	1940016	1940391	3.34E-11	0.87
30225	1955948	1956243	2.86E-10	0.89
30225	1984791	1985176	2.63E-19	0.67
30225	2003652	2004336	9.96E-77	0.95
30225	2016632	2016837	7.13E-12	0.89

30225	2017569	2017924	3.94E-39	0.9
30225	2018685	2019459	1.58E-62	0.94
30225	2021153	2022541	4.68E-155	0.91
30225	2068489	2068901	3.82E-10	0.68
30225	2094963	2095467	4.13E-16	0.9
30225	2102104	2102995	1.21E-16	0.62
30225	2111891	2112273	1.38E-06	0.86
30225	2152581	2152847	1.00E-16	0.92
30225	2172280	2172718	1.80E-05	0.9
30225	2203385	2203610	2.14E-09	0.93
30225	2226354	2226575	7.20E-03	0.93
30225	2255487	2255753	1.45E-06	0.98
30225	2263979	2264259	5.90E-13	0.82
30225	2271242	2271735	1.83E-07	0.75
30225	2337253	2337652	3.42E-08	0.73
30225	2341976	2343690	1.99E-153	0.95
30225	2350224	2350452	2.16E-13	0.86
30226	20768	21594	5.28E-05	0.97
30226	32370	33748	2.68E-106	0.93
30226	33957	35808	8.31E-134	0.93
30226	37550	38029	1.88E-69	0.94
30226	41280	41894	8.22E-26	0.69
30226	65189	65647	2.16E-11	0.62
30226	116254	116520	1.81E-05	0.95
30226	233848	234599	1.73E-67	0.96
30226	330562	330944	3.44E-158	0.95
30226	419009	419584	1.44E-22	0.98
30226	435160	436408	2.41E-83	0.95
30226	437011	437501	7.77E-36	0.96
30226	446243	447415	6.75E-90	0.97
30226	464539	465163	2.64E-46	0.94
30226	465903	466310	2.56E-43	0.93
30226	490134	492341	5.19E-172	0.95
30226	492556	493474	1.13E-65	0.84
30226	493749	494543	1.45E-63	0.93
30226	499204	499722	6.36E-19	0.62
30226	501117	501613	1.42E-13	0.74
30226	501619	501976	9.24E-17	0.8
30226	580924	581200	1.32E-12	0.9
30226	598655	599154	9.92E-55	0.9
30226	614298	614591	4.16E-05	0.88
30226	650286	650758	7.16E-42	0.94
30226	651688	652095	1.58E-09	0.78
30226	656664	657233	7.57E-08	0.62
30226	661940	663067	2.66E-104	0.93
30226	671720	672531	2.32E-19	0.64
30226	720055	720374	1.02E-05	0.92
30226	756069	756351	3.85E-56	0.93
30226	843155	843494	9.30E-11	0.94
30226	862950	863412	6.90E-28	0.97
30226	903341	903922	1.12E-16	0.86
30226	930625	931208	6.92E-60	0.98
30226	935817	936211	1.68E-40	0.94

30226	969521	969725	9.66E-08	0.86
30226	993682	994353	2.65E-08	0.84
30226	1043304	1043617	2.66E-22	0.87
30226	1093009	1093435	5.93E-36	0.91
30226	1093698	1094098	3.21E-53	0.93
30226	1114411	1114982	4.85E-61	0.85
30226	1115294	1115725	4.81E-35	0.93
30226	1116972	1117550	3.87E-59	0.94
30226	1117994	1119820	4.75E-119	0.87
30226	1121252	1121678	5.70E-33	0.86
30226	1121996	1122623	1.14E-80	0.88
30226	1189704	1189941	1.76E-14	0.62
30226	1190999	1191317	5.40E-33	0.94
30226	1231599	1231808	7.11E-18	0.93
30226	1244356	1244672	1.98E-19	0.81
30226	1273589	1273819	1.17E-07	0.97
30226	1327777	1328163	1.71E-15	0.92
30226	1339079	1339552	4.46E-15	0.92
30226	1342969	1343274	3.90E-32	0.93
30226	1344022	1344459	1.19E-10	0.82
30226	1346816	1347124	8.69E-16	0.65
30226	1347943	1348309	1.40E-42	0.92
30226	1348702	1350107	3.19E-73	0.93
30226	1351556	1353547	3.14E-96	0.96
30226	1362979	1364157	9.69E-105	0.96
30226	1390102	1390613	3.14E-07	0.84
30226	1400523	1400960	2.37E-17	0.78
30226	1401853	1402277	2.97E-26	0.82
30226	1402591	1403019	4.00E-18	0.78
30226	1404578	1404815	1.24E-35	0.9
30226	1405055	1406151	7.45E-41	0.63
30226	1406775	1407111	9.82E-34	0.9
30226	1409080	1409290	1.63E-15	0.82
30226	1410507	1410911	5.38E-28	0.81
30226	1415302	1415728	2.34E-20	0.68
30226	1431008	1431349	3.27E-14	0.93
30226	1454843	1455354	1.61E-23	0.74
30226	1546407	1547219	2.03E-25	0.75
30226	1547485	1548034	1.71E-26	0.9
30226	1549078	1549530	2.54E-23	0.91
30226	1549821	1550165	7.32E-10	0.84
30226	1556921	1557379	1.85E-20	0.86
30226	1557672	1558963	4.40E-34	0.75
30226	1670974	1671373	1.07E-27	0.91
30226	1691352	1692585	9.80E-71	0.93
30226	1749471	1749676	5.92E-04	0.74
30226	1757096	1757432	3.27E-08	0.9
30226	1758355	1758811	6.72E-04	0.69
30226	1761578	1761805	3.37E-06	0.96
30226	1761759	1762244	7.70E-22	0.71
30226	1762866	1763113	8.22E-07	0.96
30226	1773849	1774199	1.04E-43	0.92
30226	1775086	1775581	9.94E-23	0.85

30226	1796315	1798185	6.42E-56	0.82
30226	1805523	1806349	1.85E-22	0.78
30226	1835375	1835819	1.59E-05	1
30226	1844336	1845306	1.15E-106	0.94
30226	1846057	1847228	5.70E-73	0.93
30226	1848750	1849121	1.23E-36	0.83
30226	1861289	1861566	3.26E-07	0.93
30226	1892492	1892909	9.99E-05	0.82
30226	1960229	1961214	1.17E-78	0.91
30226	2020991	2021339	5.15E-14	0.79
30226	2028694	2029147	6.69E-06	0.93
30226	2041131	2042662	6.48E-152	0.84
30226	2091988	2092484	3.11E-34	0.94
30226	2094327	2094602	2.56E-23	0.89
30226	2184246	2184548	9.63E-11	0.96
30226	2203942	2204518	2.75E-38	0.8
30226	2205181	2205452	4.58E-44	0.92
30226	2205724	2206323	2.40E-69	0.83
30226	2207009	2207416	1.54E-61	0.91
30226	2211232	2211508	1.64E-24	0.89
30226	2217479	2217903	3.03E-13	0.86
30226	2317688	2317897	4.33E-16	0.95
30226	2356997	2357236	2.88E-09	0.97
30226	2383689	2383972	4.34E-06	0.71
30226	2383939	2384504	1.72E-11	0.74
30226	2388548	2389238	1.50E-10	0.8
30226	2428183	2428519	2.09E-06	0.93
30226	2549301	2549771	3.69E-53	0.94
30226	2571161	2571784	4.67E-33	0.84
30226	2647848	2648074	8.60E-17	0.65
30226	2667245	2667683	3.50E-13	0.79
30226	2691005	2691450	4.43E-27	0.91
30226	2753170	2753417	3.01E-49	0.96
30226	2803627	2803912	3.76E-05	1
30244	178	674	2.73E-07	0.95
30273	541	1304	7.58E-11	1
30296	3148	3659	8.06E-08	1
30296	3485	3857	9.08E-04	0.93
30467	466	1156	1.54E-08	0.75
30603	89	1012	6.93E-50	0.96
30710	3400	4366	2.49E-30	0.79
30754	1436	1798	1.45E-19	0.88
30861	446	823	1.25E-04	1
30869	9816	10125	9.91E-28	0.79
30905	345	1017	2.73E-05	1
30993	264	842	1.02E-09	0.93
30999	385	948	1.26E-05	0.8
31177	6386	6817	1.84E-39	0.89
31177	7116	7494	1.78E-23	0.76
31177	8185	8669	5.27E-31	0.8
31177	8896	9488	6.65E-41	0.87
31177	9774	10970	2.98E-96	0.92
31177	11236	11610	6.88E-49	0.84

31194	1331	1813	2.57E-07	0.96
31288	4	703	2.08E-40	0.87
31327	661	1157	1.95E-98	0.97
31514	831	1049	2.33E-04	0.83
31534	1403	1892	2.21E-04	0.8
31588	997	1662	2.35E-26	0.89
31740	1035	1307	3.23E-15	0.86
31760	407	946	4.46E-17	0.71
31836	252	811	1.61E-06	0.95
31865	195	544	3.14E-11	0.87
31898	578	929	3.80E-06	0.9
31949	762	1503	5.18E-06	1
31963	966	1336	3.00E-12	0.92
31993	414	1372	1.19E-39	0.62
32019	369	1032	1.78E-14	0.62
32059	1724	1978	3.45E-04	0.84
32125	1268	1624	2.98E-07	0.8
32133	726	994	7.33E-04	1
32150	548	821	1.82E-04	1
32154	93	625	1.25E-11	0.91
32297	1176	1472	8.73E-06	0.92
32297	1570	1813	4.81E-05	0.9
32349	959	1211	1.50E-08	0.89
32412	564	797	2.21E-04	1
32417	611	1015	3.84E-09	0.62
32595	83	353	1.51E-26	0.71
32663	20	863	5.64E-43	0.61
32722	404	755	1.28E-10	0.98
32724	247	486	2.76E-06	0.91
32853	58	356	4.44E-10	0.82
32915	23	243	1.48E-14	0.9
33041	1017	1340	1.57E-06	0.89
33155	456	1451	3.77E-04	0.83
33184	143	398	3.19E-11	0.8
33305	2500	3037	5.17E-44	0.91
33305	3394	4156	2.25E-29	0.87
33305	4278	4792	4.17E-07	0.87
33351	382	910	6.95E-09	0.94
33363	61	299	7.98E-22	0.9
33403	609	1008	2.54E-04	0.94
33508	878	1353	2.80E-13	0.86
33525	513	829	2.47E-07	0.85
33760	1124	1528	1.06E-06	0.76
33843	260	744	3.74E-40	0.93
33854	166	425	1.94E-20	0.91
33931	820	1184	1.00E-07	0.61
33969	10	249	2.04E-08	0.89
33976	1027	1453	3.11E-11	1
34176	703	1191	1.52E-06	0.96
34187	762	1049	1.35E-03	1
34250	929	1163	1.69E-04	0.89
34258	205	445	1.60E-19	0.78
34354	207	683	1.33E-07	0.98

34373	123	393	9.38E-09	0.81
34441	833	1103	6.12E-06	0.84
34452	365	718	8.31E-28	0.87
34486	355	1245	1.56E-39	0.86
34512	73	360	1.86E-04	0.82
34512	695	1161	1.35E-05	0.85
34584	835	1415	1.72E-12	0.97
34602	1221	1635	7.24E-09	0.95
34619	223	656	7.44E-04	1
34625	93	343	4.08E-23	0.78
34693	250	694	1.05E-04	0.96
34707	758	1052	5.54E-04	0.84
34786	909	1501	2.94E-54	0.94
34831	31	294	2.43E-24	0.81
34879	588	940	1.70E-07	0.83
34914	1384	1706	5.01E-07	0.89
34989	301	608	4.58E-12	0.79
35047	1191	1574	2.63E-07	0.97
35114	499	931	8.81E-08	0.93
35178	249	689	2.95E-18	0.78
35205	497	983	8.90E-09	0.97
35233	782	1034	2.18E-35	0.88
35268	1807	2133	1.43E-03	0.79
35391	756	970	2.95E-04	0.97
35393	675	1141	3.25E-05	0.93
35476	798	1284	1.16E-06	0.7
35500	511	957	3.74E-24	0.85
35569	439	689	1.35E-05	0.85
35648	278	1702	7.08E-33	0.94
35743	23	518	1.73E-14	0.82
35788	294	546	8.41E-09	0.71
35827	883	1167	4.10E-29	0.88
35919	822	1256	5.44E-07	0.98
35921	81	512	5.00E-04	0.92
35983	83	362	9.35E-12	0.72
36059	143	423	1.03E-07	0.73
36085	663	1070	1.83E-04	0.88
36112	2502	3183	1.23E-04	0.88
36127	333	580	5.87E-06	0.87
36130	475	820	8.12E-11	0.84
36190	508	749	1.19E-12	0.78
36219	219	765	2.54E-06	0.97
36228	64	555	3.09E-15	0.85
36263	516	763	1.06E-04	0.27
36501	2402	2734	8.28E-17	0.83
36546	821	1141	1.02E-06	0.84
36559	991	1492	1.33E-07	0.86
36567	79	369	4.19E-22	0.85
36771	2827	3744	4.38E-30	0.8
36791	759	1200	4.21E-07	0.89
36902	538	1005	2.01E-05	1
37030	993	1630	2.49E-13	0.95
37143	239	948	4.15E-14	0.95

37186	2616	2958	5.70E-11	0.94
37318	520	1041	3.29E-28	0.84
37510	437	1243	1.60E-04	0.94
37512	1319	1576	1.04E-07	0.79
37535	124	356	7.69E-25	0.88
37555	342	1340	6.03E-38	0.87
37567	30	785	1.64E-32	0.86
37607	320	600	3.92E-07	0.95
37798	2221	2821	8.06E-77	0.73
37798	3217	3576	1.10E-32	0.9
37813	34	511	1.09E-08	0.81
37926	112	616	5.23E-13	0.83
38067	626	1117	1.34E-15	0.77
38288	4413	5722	1.62E-42	0.78
38378	172	490	1.64E-09	0.97
38406	1810	2621	4.23E-160	0.84
38502	823	1179	1.38E-09	0.97
38526	351	1060	1.05E-41	0.83
38590	2312	3054	2.72E-22	0.73
38594	1267	1736	2.74E-09	0.77
38770	1103	1635	7.61E-10	0.94
38770	3897	4244	4.48E-08	0.97
38781	14	275	3.31E-18	0.91
38843	826	1043	4.84E-09	0.62
38854	1	219	1.47E-04	0.71
39030	260	882	1.73E-20	0.86
39126	332	564	5.18E-11	0.96
39173	7774	7989	2.17E-09	0.78
39690	50	1100	2.79E-15	0.7
39724	12	265	4.08E-07	0.87
39729	2117	3217	1.26E-30	0.92
39756	133	987	6.55E-12	0.88
39783	253	502	9.42E-11	0.95
39811	39	903	7.09E-31	0.67
39848	215	453	8.14E-05	0.87
39856	1286	2313	6.27E-46	0.81
40207	104	978	5.88E-106	0.89
40223	7727	8332	8.08E-13	0.68
40246	235	948	1.00E-11	0.7
40251	686	1012	7.42E-08	0.88
40272	173	693	7.78E-05	0.79
40374	83	638	3.01E-12	0.62
40375	4	269	1.46E-08	0.85
40456	691	931	1.61E-05	0.73
40571	546	1083	1.62E-17	0.8
40579	57	380	2.23E-22	0.83
40596	589	890	2.08E-06	1
40629	350	787	1.60E-07	0.87
40690	661	1130	6.16E-07	0.94
40703	120	328	3.72E-13	0.73
40941	91	734	2.27E-06	0.92
40970	3192	3724	2.26E-15	0.95
41095	378	593	5.00E-06	0.88

41132	2254	2636	2.16E-14	0.95
41132	4774	5449	7.38E-17	0.77
41133	5783	6463	3.84E-51	0.94
41333	328	693	1.43E-05	0.79
41333	2201	2777	9.40E-07	0.94
41333	2796	3168	6.90E-15	0.97
41444	1007	1488	4.12E-15	0.97
41483	354	671	1.44E-04	0.63
41610	565	1229	5.13E-20	0.98
41646	477	840	1.30E-16	0.87
41655	2065	2330	1.24E-17	0.96
41815	1366	1686	2.19E-07	0.92
41833	4246	4529	2.09E-58	0.9
41909	5638	6301	2.46E-49	0.86
41994	1428	1777	1.30E-08	0.96
42022	668	1012	3.42E-08	1
42027	1745	2138	1.29E-08	0.83
42050	35	463	2.43E-05	0.9
42159	703	1167	4.69E-07	0.75
42254	890	1119	6.25E-06	0.84
42413	271	942	1.54E-04	0.89
42475	64	944	4.19E-28	0.64
42502	336	899	8.11E-52	0.95
42519	137	1153	3.86E-31	0.81
42725	418	924	1.26E-04	0.93
42913	5708	5924	3.61E-19	0.81
42917	278	545	3.15E-06	0.91
42926	722	1552	5.32E-22	0.93
42968	20	432	3.90E-06	0.63
42973	89	426	8.97E-04	0.95
42977	198	626	4.02E-05	1
43007	277	636	1.89E-08	0.6
43176	907	1413	2.61E-26	0.87
43304	896	1467	2.02E-52	0.89
43363	1559	1784	1.17E-07	0.62
43540	6468	7084	8.78E-49	0.88
43670	9	407	3.64E-30	0.83
43716	526	1229	1.82E-39	0.88
43733	1	282	7.88E-09	0.9
43972	189	517	1.19E-15	0.88
43996	662	925	1.31E-05	0.83
44032	550	832	1.67E-23	0.7
44062	72	1036	3.90E-23	0.78
44143	403	668	7.45E-07	0.72
44329	21	384	2.08E-16	0.74
44329	580	900	8.50E-09	0.65
44349	815	1086	3.50E-05	0.85
44607	15	669	8.95E-23	0.87
44623	90	762	4.86E-10	0.9
44640	40	494	5.92E-14	0.98
44744	29	289	8.88E-08	1
44838	970	1546	7.71E-44	0.95
44896	122	485	4.32E-04	0.95

44944	301	583	6.45E-14	0.69
45065	633	976	1.06E-11	0.83
45065	1532	2266	1.01E-63	0.92
45092	3	820	2.24E-14	0.93
45174	2261	2749	1.15E-07	1
45185	107	499	9.57E-15	0.69
45236	461	704	3.78E-07	0.8
45284	437	860	2.06E-08	0.92
45309	267	809	5.16E-05	1
45361	3843	4050	9.90E-37	0.96
45374	2461	3029	1.67E-10	0.97
45400	69	501	4.59E-10	0.87
45438	568	1025	2.22E-08	1
45562	7842	8269	3.68E-09	0.91
45562	8733	9093	9.63E-06	0.78
45876	38	844	3.01E-52	0.96
45882	1153	1588	1.51E-38	0.82
45882	2007	2475	7.00E-64	0.88
45885	66	880	1.68E-07	0.94
46018	5130	5345	1.13E-18	0.9
46045	25	399	4.21E-09	0.92
46116	24	369	8.21E-14	0.7
46127	751	1235	1.85E-08	0.82
46171	382	603	7.23E-04	1
46175	614	1022	8.10E-06	0.95
46431	650	971	2.20E-11	0.75
46474	465	1117	4.76E-59	0.92
46733	62	450	2.99E-07	1
46922	104	399	1.73E-08	0.88
46922	121	551	7.56E-09	0.89
46968	403	792	8.58E-10	0.89
46989	434	1032	3.04E-139	0.93
47073	2	593	1.04E-14	0.92
47073	407	1009	1.08E-29	0.97
47134	4903	5271	1.87E-05	0.92
47134	7792	8043	5.77E-04	0.67
47171	1265	1613	9.03E-05	0.87
47284	3395	4220	4.44E-33	0.62
47284	15066	15474	2.11E-07	0.7
47335	1630	1833	3.87E-09	0.76
47364	589	822	1.84E-05	1
47457	490	861	6.85E-15	1
47721	2350	2996	3.64E-46	0.97
47823	8423	8912	2.20E-09	0.78
47885	444	928	8.47E-08	0.88
48009	1106	1345	1.23E-07	0.83
48045	1019	1496	1.25E-11	0.98
48081	5	368	1.42E-07	0.6
48098	2230	2684	4.94E-07	0.83
48196	226	1337	1.08E-104	0.91
48455	120	2827	2.41E-111	0.85
48488	50	842	3.80E-26	0.66
48491	62	648	2.07E-07	0.67

48578	591	1037	4.77E-07	0.81
48593	2486	2712	7.83E-08	0.84
48705	759	1254	2.79E-29	0.94
48961	134	386	1.22E-07	0.72
48985	1283	1641	9.16E-10	0.86
49012	53	431	6.23E-10	0.73
49069	959	1425	6.36E-23	0.86
49278	360	650	2.33E-06	0.91
49480	354	677	4.63E-08	0.95
49493	524	978	5.38E-08	0.93
49716	615	1182	1.31E-10	0.89
49716	2470	2886	4.15E-06	1
49793	51	535	3.97E-45	0.9
50072	618	899	4.61E-15	0.87
50072	1236	2552	5.67E-57	0.79
50098	121	397	1.17E-10	0.72
50113	924	1266	6.84E-35	0.82
50280	1494	1772	3.37E-06	0.93
50459	495	786	3.35E-08	0.96
50550	3316	3631	6.88E-10	0.86
50557	2329	2878	5.88E-10	0.79
50680	598	947	3.67E-13	0.89
50694	832	1097	1.90E-05	0.94
50700	458	661	7.01E-04	0.71
50749	1572	2034	2.81E-06	0.85
50870	135	550	5.72E-32	0.95
50977	668	1285	7.32E-06	1
51370	929	1386	9.46E-11	0.91
51390	8813	9381	5.43E-32	0.86
51516	118	816	1.36E-31	0.95
51538	620	958	1.35E-19	0.62
51695	22	441	1.04E-14	0.72
51696	170	632	4.06E-50	0.89
51755	655	979	1.32E-28	0.88
52013	2097	3655	1.41E-227	0.9
52051	67	744	1.93E-06	0.88
52218	436	650	1.35E-05	0.92
52317	4471	5148	4.07E-35	0.8
52484	166	491	3.16E-07	0.79
52526	8821	9074	2.06E-05	0.74
52526	11675	12136	8.22E-09	0.63
52526	12095	12402	3.00E-06	0.8
52629	2015	2311	5.42E-13	0.84
52726	1793	2101	8.55E-42	0.96
52751	5820	6972	3.77E-57	0.89
52809	81	341	2.38E-36	0.87
53123	79	303	2.97E-47	0.92
53232	179	719	5.38E-09	0.94
53242	21	279	2.10E-08	0.84
53355	715	995	5.17E-04	0.71
53687	620	845	7.14E-16	0.61
53736	339	947	5.96E-24	0.75
53821	631	838	9.63E-10	0.97

53996	108	904	4.66E-30	0.9
54008	406	1278	1.10E-106	0.94
54085	106	838	1.53E-11	1
54190	847	1117	1.35E-08	0.93
54199	355	780	2.44E-11	0.95
54312	163	672	2.97E-39	0.99
54424	802	1064	5.61E-19	0.77
54501	463	1189	1.43E-65	0.9
54546	304	698	2.05E-12	0.83
54592	571	1098	1.40E-08	0.94
54692	472	778	4.36E-04	0.83
54713	14	354	5.02E-07	0.98
54899	2194	2583	4.71E-21	0.89
54996	380	889	5.26E-06	0.89
55072	1103	1338	1.51E-07	0.78
55078	1760	2147	7.11E-14	0.84
55107	462	1250	3.80E-78	0.88
55107	1527	1953	2.41E-47	0.96
55162	231	1153	9.44E-17	0.77
55188	321	877	5.20E-08	0.89
55331	13326	14114	2.10E-20	0.9
55349	819	1084	3.43E-06	0.9
55369	794	1000	1.89E-11	0.81
55616	1224	1571	6.14E-05	0.76
55616	3394	3856	1.12E-11	0.73
55635	1110	1594	1.35E-23	0.83
55678	3750	4773	5.47E-94	0.81
55757	896	1263	4.49E-54	0.94
55802	480	791	8.23E-11	0.99
55802	1242	1577	6.03E-17	0.91
55819	4891	5806	1.33E-10	0.78
55833	660	1049	9.54E-06	0.91
55996	391	968	9.25E-22	0.75
56032	1022	1370	2.63E-05	1
56130	780	1149	2.08E-03	0.92
56193	238	1730	1.41E-77	0.94
56266	561	784	6.45E-28	0.89
56295	660	1142	1.01E-08	0.93
56344	466	770	7.20E-07	0.92
56374	833	1093	2.37E-13	0.77
56420	84	437	7.84E-08	0.93
56453	790	1173	7.72E-27	0.77
56605	359	812	1.74E-10	0.97
56659	429	951	1.20E-10	0.71
56729	1078	1366	1.83E-22	0.92
56742	982	1288	4.84E-07	0.92
56772	5	530	7.38E-12	0.93
56816	1440	1665	9.01E-05	0.76
56826	4846	5735	4.71E-94	0.72
56844	767	1002	2.16E-12	0.94
56957	560	887	6.07E-31	0.96
57062	134	385	6.52E-06	0.89
57106	17087	17295	1.96E-09	0.77

57106	21437	21760	1.03E-15	0.9
57245	2074	2356	2.34E-08	0.91
57251	473	783	4.42E-04	0.95
57314	940	1396	1.87E-18	0.89
57529	515	1401	3.87E-09	0.88
57529	1488	2496	5.22E-20	0.9
57565	65	764	1.38E-05	0.94
57586	49	289	1.96E-07	0.97
57604	3495	4129	8.91E-69	0.89
57604	6497	6985	5.32E-58	0.88
57677	322	824	3.38E-36	0.87
57741	586	952	5.40E-12	0.83
57745	75	386	3.36E-23	0.64
57860	368	1028	1.98E-20	0.6
57955	28	638	2.62E-67	0.96
57955	1689	2029	1.25E-49	0.95
57984	134	961	1.43E-16	0.85
58002	204	434	1.41E-03	0.32
58052	1	250	4.60E-06	0.89
58124	1827	2303	5.00E-60	0.92
58124	11772	12137	4.72E-05	0.98
58280	346	550	2.50E-06	0.84
58361	2014	2417	1.09E-20	0.77
58434	4124	4353	1.87E-07	0.82
58434	17603	17891	3.36E-11	0.76
58494	1007	1287	1.12E-11	0.98
58538	79	467	1.36E-11	0.95
58591	1566	1774	3.41E-07	0.09
58624	317	1030	8.58E-13	0.74
58736	285	771	2.66E-09	0.77
58840	3388	4347	9.54E-54	0.66
58840	4555	5007	4.96E-14	0.85
58840	5260	6124	2.66E-28	0.85
58870	3023	3228	3.92E-31	0.9
58870	7452	7908	2.08E-12	0.86
58893	100	925	5.53E-20	0.94
59106	93	610	7.75E-13	0.92
59222	706	998	2.91E-09	1
59231	127	444	1.74E-07	0.89
59304	22329	22647	2.83E-06	0.91
59346	1186	1588	9.79E-23	0.9
59379	189	489	4.07E-09	0.61
59431	255	536	1.13E-06	0.93
59505	2910	3232	1.21E-49	0.8
59505	13350	14081	5.29E-93	0.92
59505	16158	16375	1.12E-32	0.89
59516	1598	1916	3.19E-07	0.61
59561	1455	1691	3.19E-08	0.93
59658	25163	25429	3.57E-06	0.89
59736	835	1040	1.32E-08	0.93
59759	107	1018	2.17E-19	0.93
59796	26	723	2.47E-07	0.77
60263	1606	2734	4.02E-131	0.86

60269	127	865	7.01E-49	0.95
60361	896	1281	6.37E-41	0.9
60629	716	1059	5.37E-14	0.83
60637	2475	3083	1.34E-16	0.65
60637	3287	3505	1.59E-24	0.63
60637	4709	4985	2.36E-15	0.7
60638	56424	58130	2.30E-57	0.9
60638	76514	76898	8.41E-11	0.63
60638	107902	108340	1.19E-20	0.88

CG sequence context.

DNA methylation level in endosperm

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Supplemental Table S4. Endosperm-preferred genes and the differentially methy

Gene	CG	CHG	CHH	Embryo(EN)	endosperm(EM)	log2(EM/EN)
27436.m000284	-	-	-	0.43	99.85	7.86
27451.m000241	+	-	-	2.26	19.73	3.13
27451.m000242	-	-	-	0.98	7.85	3.00
27561.m000301	-	+	-	0.16	2.61	4.05
27568.m000259	-	-	-	0.53	6.05	3.50
27613.m000641	-	-	-	1.08	14.61	3.76
27623.m000142	-	-	+	4.34	25.52	2.55
27637.m000173	-	-	-	2.00	11.62	2.54
27647.m000177	+	-	-	5.80	56.55	3.28
27758.m000330	+	-	-	1.09	9.03	3.05
27847.m000125	-	-	-	0.42	20.99	5.63
27894.m000807	+	+	-	1.10	7.08	2.68
27894.m000811	-	-	-	2.76	14.40	2.38
27964.m000368	+	-	-	0.15	104.48	9.42
27965.m000111	-	-	-	0.10	2.68	4.72
27973.m000087	+	-	-	1.31	5.71	2.12
28008.m000029	+	-	-	2.14	54.47	4.67
28053.m000048	-	-	+	24.25	98.52	2.02
28076.m000418	+	-	-	0.41	2.01	2.30
28128.m000155	+	-	-	3.24	61.37	4.25
28151.m000042	+	-	-	27.02	129.69	2.26
28152.m000889	-	-	-	3.13	18.59	2.57
28153.m000288	-	-	-	5.60	33.52	2.58
28166.m001040	+	-	-	6.13	27.18	2.15
28166.m001086	-	-	-	0.00	3.91	11.93
28176.m000269	-	-	-	1.43	13.66	3.26
28179.m000457	-	-	-	1.01	12.03	3.58
28200.m000191	-	-	-	0.22	277.21	10.29
28200.m000193	-	-	-	1.50	11.82	2.98
28226.m000860	-	-	-	0.15	9.36	6.01
28226.m000871	+	-	-	7.11	40.28	2.50
28256.m000134	-	+	-	1.89	116.91	5.95
28297.m000110	-	-	-	1.97	8.59	2.13
28333.m000569	+	+	-	4.98	34.57	2.80
28408.m000201	-	-	-	0.53	4.24	3.00
28460.m000082	+	-	-	0.45	15.98	5.15
28470.m000429	+	-	-	0.81	242.91	8.22
28498.m000207	+	-	-	0.68	4.04	2.57
28535.m000123	+	-	-	1.66	6.95	2.07
28583.m000107	+	-	-	2.78	13.35	2.26
28592.m000275	-	-	-	0.75	3.18	2.08
28603.m000172	+	-	-	0.48	18.88	5.31
28611.m000105	+	-	-	0.44	3.68	3.05

28612.m000118	+	-	-	0.66	30.59	5.53
28612.m000119	+	-	-	6.37	145.79	4.52
28629.m000553	+	-	-	2.56	10.89	2.09
28629.m000565	+	-	+	0.04	137.31	11.75
28657.m000380	-	-	-	0.00	5.95	12.54
28694.m000667	-	-	-	0.23	4.23	4.21
28694.m000675	+	-	-	3.22	25.64	2.99
28694.m000676	-	+	-	6.21	37.43	2.59
28883.m000729	-	-	-	0.64	4.39	2.78
28883.m000741	-	-	-	0.05	34.93	9.45
28952.m000016	-	+	-	0.11	4.65	5.44
28966.m000545	+	-	-	4.88	27.18	2.48
29093.m000078	-	-	-	0.56	5.09	3.18
29172.m000217	-	+	-	1.68	8.11	2.27
29200.m000170	-	-	-	4.10	16.72	2.03
29269.m000250	-	-	-	0.44	10.21	4.53
29308.m000182	-	-	-	0.25	3.10	3.65
29333.m001097	+	-	-	5.33	25.68	2.27
29428.m000332	+	-	-	1.10	4.60	2.07
29462.m000387	-	-	-	4.97	21.87	2.14
29489.m000174	-	+	-	1.87	11.66	2.64
29497.m000089	+	-	-	2.22	8.90	2.00
29585.m000601	+	-	-	0.57	6.32	3.47
29588.m000878	-	-	-	0.05	133.18	11.39
29589.m001234	+	-	-	0.96	22.77	4.57
29595.m000287	+	-	-	1.04	4.40	2.08
29598.m000464	+	-	-	2.00	28.33	3.82
29598.m000465	-	-	-	0.45	3.77	3.06
29599.m000177	-	-	-	4.40	22.21	2.34
29600.m000545	-	-	-	3.65	19.24	2.40
29610.m000393	+	-	-	0.00	7.70	12.91
29610.m000402	+	-	-	1.24	5.58	2.17
29611.m000231	+	-	-	3.39	19.77	2.54
29619.m000249	+	-	-	0.52	2.16	2.06
29620.m000534	-	-	-	0.17	6.34	5.21
29620.m000557	+	-	-	1.28	9.98	2.96
29624.m000320	-	-	-	1.33	5.82	2.13
29625.m000702	+	-	-	5.57	29.73	2.42
29628.m000766	+	-	-	0.14	2.00	3.85
29629.m001402	+	-	-	2.16	9.02	2.06
29630.m000783	-	-	-	0.66	2.72	2.04
29631.m001014	+	-	-	3.39	36.47	3.43
29631.m001021	+	-	-	0.37	2.00	2.46
29633.m000898	-	-	-	0.52	2.68	2.37
29634.m002144	-	-	-	0.77	5.38	2.80

29634.m002146	-	-	-	0.00	8.46	13.05
29637.m000766	+	-	-	0.52	2.56	2.30
29646.m001067	-	-	-	0.00	3.40	11.73
29647.m002044	-	-	-	0.51	4.64	3.20
29647.m002090	-	-	-	6.39	101.93	4.00
29647.m002113	-	-	-	1.15	53.53	5.54
29648.m001921	-	-	-	0.37	95.66	8.00
29648.m001944	+	-	-	2.42	14.80	2.62
29648.m001971	-	-	-	0.46	4.14	3.18
29648.m001976	-	-	-	0.58	17.82	4.95
29648.m002017	+	-	-	0.79	3.97	2.32
29650.m000277	+	-	-	2.66	13.78	2.37
29653.m000293	-	-	-	0.26	5.73	4.45
29656.m000476	-	-	-	4.55	48.57	3.42
29662.m000457	+	-	-	1.19	7.51	2.65
29662.m000461	-	-	-	0.11	5.25	5.59
29666.m001479	+	-	-	0.00	10.83	13.40
29669.m000814	+	-	-	6.43	69.84	3.44
29669.m000827	-	-	-	0.79	4.71	2.57
29676.m001645	+	-	-	0.48	18.87	5.28
29676.m001698	-	-	-	2.04	11.94	2.55
29676.m001704	+	-	-	8.42	38.88	2.21
29678.m000501	-	-	-	0.07	21.46	8.23
29678.m000510	+	-	-	0.51	4.89	3.27
29680.m001664	-	-	-	12.98	183.16	3.82
29681.m001333	+	-	-	1.68	11.12	2.72
29681.m001352	+	-	-	0.27	4.65	4.13
29683.m000472	-	-	-	1.25	22.03	4.14
29684.m000322	+	-	-	18.93	103.25	2.45
29685.m000501	-	-	-	0.37	5.73	3.96
29685.m000502	+	-	-	0.56	12.49	4.47
29685.m000504	-	-	-	2.08	8.95	2.10
29687.m000591	-	-	-	1.96	16.66	3.08
29693.m002070	+	-	-	0.48	2.58	2.42
29696.m000101	+	-	-	2.72	19.73	2.86
29700.m000758	+	-	-	1.80	13.66	2.92
29709.m001226	+	-	-	1.23	21.63	4.13
29713.m000178	+	-	-	0.60	4.12	2.77
29719.m000328	+	-	-	0.59	6.71	3.49
29724.m000825	-	-	-	3.55	312.88	6.46
29726.m003897	-	-	-	0.00	19.02	14.22
29726.m003928	-	-	-	0.00	5.45	12.41
29726.m004005	+	-	-	9.87	44.62	2.18
29726.m004094	+	-	+	25.21	1657.25	6.04
29728.m000836	+	-	-	1.52	6.41	2.08

29729.m002275	-	-	-	0.15	3.81	4.66
29729.m002277	+	-	-	2.65	21.40	3.01
29729.m002296	-	-	-	0.00	2.78	11.44
29729.m002358	-	-	-	0.65	5.34	3.05
29729.m002376	+	-	-	0.33	2.86	3.11
29737.m001209	+	+	-	5.59	26.04	2.22
29737.m001226	+	-	-	1.26	5.67	2.17
29739.m003573	+	-	-	1.73	12.15	2.82
29739.m003595	+	-	-	0.00	9.09	13.15
29739.m003673	+	-	-	0.13	11.58	6.47
29739.m003776	-	-	-	0.68	10.23	3.91
29740.m000490	-	-	-	0.65	3.00	2.20
29742.m001408	+	-	-	0.74	4.17	2.49
29743.m000296	+	-	-	6.88	30.02	2.13
29745.m000372	-	-	-	0.35	4.58	3.71
29747.m001071	-	-	-	2.34	19.43	3.06
29751.m001801	+	-	-	3.06	62.60	4.35
29751.m001876	+	-	-	0.00	2.94	11.52
29756.m000489	-	-	-	0.59	3.03	2.35
29758.m000670	-	-	-	0.00	2.31	11.18
29764.m000758	+	+	-	9.65	51.22	2.41
29765.m000748	+	-	-	2.86	11.81	2.05
29767.m000199	-	-	-	3.67	48.35	3.72
29772.m000319	-	-	-	0.27	4.91	4.20
29776.m000477	+	-	-	0.20	8.38	5.36
29776.m000485	-	+	-	4.87	21.49	2.14
29780.m001394	-	-	-	0.49	7.72	3.97
29782.m000116	+	-	-	2.55	15.31	2.59
29783.m000308	-	+	-	0.12	14.22	6.85
29783.m000319	+	-	-	0.00	76.34	16.22
29785.m000970	+	-	-	38.25	169.28	2.15
29794.m003336	-	-	-	2.62	18.75	2.84
29794.m003393	-	-	-	0.12	25.77	7.73
29794.m003435	+	-	-	3.15	67.60	4.42
29794.m003463	+	-	-	1.68	11.50	2.78
29797.m000356	+	-	-	0.22	15.95	6.19
29799.m000632	-	-	-	0.00	2.35	11.20
29801.m003065	+	-	-	2.14	148.86	6.12
29801.m003069	+	-	-	42.31	198.29	2.23
29801.m003122	+	-	-	11.32	56.23	2.31
29801.m003147	-	-	-	5.73	42.07	2.88
29801.m003167	+	-	-	1.20	16.40	3.78
29801.m003168	+	-	-	1.25	19.97	4.00
29801.m003169	-	-	-	0.40	2.26	2.51
29801.m003176	+	-	-	4.69	37.28	2.99

29804.m001474	-	-	-	0.25	2.07	3.03
29804.m001508	+	-	-	0.59	2.68	2.17
29804.m001532	-	-	-	0.90	4.97	2.47
29804.m001550	+	-	-	1.11	8.59	2.96
29804.m001551	+	-	-	16.90	79.56	2.24
29805.m001484	+	-	-	11.71	50.63	2.11
29805.m001492	+	-	-	4.21	19.99	2.25
29805.m001494	-	-	-	0.66	7.49	3.50
29805.m001504	+	-	-	0.45	2.63	2.54
29806.m000978	+	-	-	0.26	21.45	6.36
29806.m000979	-	-	-	1.45	6.13	2.08
29807.m000474	-	-	-	0.05	6.12	6.93
29812.m000202	-	-	-	0.00	2.32	11.18
29813.m001524	+	-	-	0.85	4.32	2.34
29813.m001533	+	-	-	0.24	3.28	3.79
29814.m000714	+	-	-	5.01	50.63	3.34
29814.m000715	+	-	-	15.88	130.02	3.03
29816.m000668	+	-	-	1.02	4.51	2.14
29819.m000079	-	-	-	7.52	39.15	2.38
29820.m000995	-	-	-	3.37	19.16	2.51
29820.m001015	-	-	-	0.11	4.74	5.45
29820.m001029	+	-	-	0.26	10.39	5.35
29822.m003337	+	-	-	0.27	3.09	3.53
29822.m003341	-	-	-	0.42	2.01	2.27
29822.m003348	+	-	-	0.24	2.78	3.51
29822.m003397	-	-	-	0.00	25.82	14.66
29822.m003405	-	-	-	0.37	2.08	2.49
29822.m003484	-	-	-	0.08	3.39	5.32
29822.m003512	-	-	-	0.10	4.27	5.35
29826.m000736	-	-	-	0.19	3.69	4.25
29827.m002572	+	-	-	11.90	50.34	2.08
29827.m002592	+	-	-	3.29	33.51	3.35
29827.m002621	+	-	-	0.42	2.89	2.76
29827.m002623	+	-	-	0.75	3.86	2.36
29827.m002624	-	-	-	1.85	9.65	2.38
29827.m002648	+	-	-	0.99	4.88	2.30
29827.m002655	-	-	-	0.30	54.71	7.50
29832.m000324	+	-	-	0.51	5.43	3.40
29835.m000648	+	-	-	0.04	8.83	7.86
29835.m000658	-	-	-	0.67	3.36	2.33
29838.m001634	-	-	-	0.51	5.07	3.31
29841.m002754	+	-	-	0.38	3.99	3.38
29841.m002780	+	-	-	0.30	3.33	3.45
29841.m002825	+	-	-	0.50	15.47	4.94
29841.m002847	+	-	-	18.35	73.66	2.00

29841.m002903	-	-	-	4.33	41.50	3.26
29842.m003537	-	-	-	0.74	5.04	2.76
29842.m003541	+	-	-	0.84	3.39	2.01
29842.m003581	-	-	-	90.91	366.54	2.01
29844.m003163	+	-	-	1.09	19.66	4.17
29844.m003187	+	-	-	0.08	13.53	7.40
29844.m003212	-	-	-	0.80	13.97	4.13
29844.m003242	+	-	-	1.63	7.93	2.28
29844.m003332	-	-	-	8.77	57.48	2.71
29844.m003335	+	-	-	3.77	31.15	3.05
29844.m003349	+	-	-	3.58	15.75	2.14
29848.m004574	-	-	-	4.59	24.99	2.44
29848.m004661	+	-	-	2.09	8.63	2.05
29848.m004680	+	-	-	1.89	2258.37	10.22
29851.m002370	+	-	-	0.46	9.73	4.39
29851.m002416	+	-	-	2.98	17.04	2.52
29854.m001091	+	-	-	0.73	2.92	2.01
29854.m001136	-	-	-	0.00	150.84	17.20
29862.m000333	-	+	-	0.12	4.38	5.23
29863.m001056	+	-	-	0.22	3.30	3.90
29864.m001464	+	-	-	1.76	11.98	2.77
29877.m000488	-	-	-	2.71	11.50	2.09
29887.m000231	+	-	-	0.45	3.15	2.82
29889.m003246	-	-	-	7.52	32.40	2.11
29889.m003402	-	-	-	0.75	10.23	3.77
29897.m000372	+	-	-	1.98	12.00	2.60
29900.m001562	-	-	-	0.00	8.95	13.13
29900.m001630	+	-	-	0.00	2.61	11.35
29901.m000415	+	-	-	0.14	21.89	7.25
29904.m002916	-	-	-	0.14	6.29	5.50
29904.m002927	+	-	-	6.14	273.25	5.48
29904.m002936	+	-	-	5.67	47.87	3.08
29904.m002951	+	-	-	1.38	8.84	2.68
29904.m002974	-	-	-	1.76	33.00	4.23
29905.m000425	+	-	-	0.00	5.75	12.49
29907.m000627	-	-	-	0.64	3.14	2.28
29907.m000652	+	-	-	0.08	355.51	12.04
29908.m006032	+	-	-	0.22	7.34	5.04
29908.m006057	-	-	-	14.68	77.70	2.40
29908.m006112	-	-	-	1.94	12.51	2.69
29908.m006144	-	-	-	0.02	6.91	8.42
29908.m006149	+	-	-	2.92	11.72	2.00
29910.m000957	+	-	-	0.40	3.94	3.29
29912.m005318	-	-	-	0.19	8.90	5.53
29912.m005328	+	-	-	19.05	79.40	2.06

29912.m005390	-	-	-	0.17	3.64	4.45
29912.m005537	-	-	-	0.44	34.81	6.30
29912.m005583	+	-	-	7.14	34.78	2.28
29914.m000199	-	-	-	2.80	11.75	2.07
29917.m001963	+	-	-	0.03	5.79	7.79
29917.m001964	-	-	-	0.46	2.80	2.62
29917.m002005	+	-	-	1.56	8.29	2.41
29917.m002007	+	-	-	0.52	2.86	2.45
29927.m000593	+	-	-	1.40	8.78	2.65
29927.m000594	+	-	-	1.11	5.04	2.18
29929.m004505	-	-	-	1.19	8.46	2.83
29929.m004627	+	-	-	0.29	2.15	2.87
29929.m004758	+	-	-	1.97	15.90	3.01
29929.m004764	-	-	-	1.98	27.41	3.79
29929.m004802	+	-	-	0.57	44.27	6.28
29933.m001455	+	-	-	2.99	17.95	2.59
29940.m000397	+	-	-	1.96	9.13	2.22
29948.m000692	-	-	-	1.05	5.92	2.49
29949.m000124	+	-	-	5.92	26.26	2.15
29950.m001178	-	-	-	0.00	2.77	11.44
29957.m001411	-	-	-	1.17	11.89	3.35
29957.m001427	+	-	-	2.63	10.71	2.02
29958.m000939	-	-	-	18.33	107.47	2.55
29970.m000980	+	-	-	2.19	20.50	3.23
29975.m000754	+	-	-	2.61	14.98	2.52
29975.m000755	+	-	-	0.77	5.61	2.86
29976.m000508	-	-	-	5.79	31.93	2.46
29983.m003116	-	-	-	0.05	3.11	6.01
29983.m003152	-	-	-	1.13	20.00	4.14
29983.m003169	+	-	-	0.00	14.62	13.84
29983.m003264	+	-	-	1.61	6.81	2.08
29986.m001641	-	-	-	0.50	3.48	2.81
29990.m000507	-	+	-	0.12	2.18	4.23
29991.m000626	-	-	-	14.13	134.04	3.25
29991.m000629	+	-	-	0.25	4.91	4.27
29993.m001035	+	-	-	1.02	15.78	3.94
30000.m000371	-	-	-	4.44	23.70	2.42
30008.m000792	+	-	-	0.66	4.58	2.79
30010.m000662	-	-	-	0.00	3.25	11.66
30017.m000315	-	+	-	0.34	7.30	4.43
30024.m001753	+	-	-	3.45	14.43	2.06
30026.m001464	+	-	-	0.16	14.92	6.57
30028.m000252	-	-	-	0.73	2.99	2.04
30028.m000253	-	-	-	7.56	41.56	2.46
30032.m000457	-	-	-	21.41	105.38	2.30

30054.m000794	-	-	-	0.95	7.45	2.98
30055.m001541	+	-	-	91.63	626.01	2.77
30055.m001575	+	-	-	1.66	7.65	2.20
30055.m001587	-	-	-	0.42	133.70	8.31
30055.m001588	-	-	-	0.28	7.41	4.71
30055.m001634	-	-	-	0.57	3.44	2.59
30056.m000859	+	-	-	0.00	3.70	11.86
30059.m000476	+	-	-	0.45	2.38	2.40
30063.m001420	-	-	-	2.49	12.50	2.33
30063.m001435	+	-	-	0.60	2.57	2.10
30064.m000489	-	-	-	0.00	2.26	11.15
30068.m002552	+	-	-	0.46	3.55	2.95
30068.m002670	-	-	-	23.38	98.89	2.08
30069.m000439	+	-	-	0.57	7.63	3.74
30070.m000117	-	+	-	0.61	3.54	2.53
30071.m000434	+	-	-	6.12	24.83	2.02
30071.m000450	+	-	-	0.34	2.71	2.98
30072.m000947	-	+	-	7.32	37.02	2.34
30073.m002214	-	-	-	0.00	5.61	12.45
30073.m002236	-	+	-	1.19	8.26	2.80
30073.m002241	+	-	-	3.97	17.07	2.11
30073.m002247	-	+	-	0.19	9.56	5.67
30073.m002256	+	+	+	3.74	17.05	2.19
30074.m001338	-	-	-	2.06	8.65	2.07
30074.m001377	+	-	-	0.30	2.03	2.75
30075.m001134	+	-	-	0.78	10.59	3.77
30076.m004489	-	-	-	0.30	2.50	3.06
30076.m004587	+	+	-	0.09	3.70	5.40
30076.m004616	-	-	-	0.09	62.43	9.44
30078.m002250	+	-	-	0.93	3.85	2.05
30078.m002281	-	-	-	3.31	18.74	2.50
30078.m002295	+	-	-	0.69	3.16	2.19
30079.m000454	+	-	-	7.70	33.05	2.10
30089.m001013	-	-	-	0.00	2.67	11.38
30090.m000241	-	-	-	0.00	3.34	11.71
30090.m000247	+	-	-	0.00	3.27	11.67
30093.m000370	+	+	-	0.25	157.63	9.31
30094.m000684	+	-	-	1.03	6.05	2.55
30098.m001713	-	-	-	1.11	5.24	2.24
30098.m001714	+	-	-	1.53	7.26	2.25
30099.m001661	+	+	-	0.21	4.34	4.40
30099.m001662	-	-	-	0.17	3.41	4.31
30099.m001695	+	+	-	0.58	2.51	2.11
30099.m001696	-	-	-	0.40	3.44	3.09
30100.m000783	-	+	-	17.20	161.01	3.23

30101.m000371	-	-	-	0.16	4.74	4.90
30106.m000644	-	-	-	42.57	226.87	2.41
30106.m000653	+	+	-	0.05	4.17	6.34
30110.m000727	-	-	-	3.22	13.36	2.05
30111.m000701	+	-	-	1.73	9.67	2.48
30111.m000718	-	-	-	0.84	22.20	4.73
30111.m000734	-	-	-	2.07	22.52	3.44
30111.m000739	-	-	-	11.90	72.28	2.60
30113.m001441	+	-	-	0.52	4.45	3.08
30114.m000508	-	-	-	1.46	15.37	3.40
30115.m001213	-	-	-	1.01	8.82	3.12
30115.m001255	-	-	-	3.26	18.05	2.47
30128.m008540	+	-	-	9.05	51.01	2.50
30128.m008544	+	-	-	0.72	3.13	2.11
30128.m008545	-	-	-	0.38	17.45	5.53
30128.m008553	+	-	-	3.31	14.29	2.11
30128.m008555	+	-	-	1.15	4.80	2.06
30128.m008558	-	+	-	8.37	38.40	2.20
30128.m008581	-	-	-	0.33	2.41	2.87
30128.m008611	+	-	-	3.30	20.97	2.67
30128.m008613	-	-	-	0.29	5.92	4.37
30128.m008654	+	-	-	0.10	3.41	5.16
30128.m008743	+	-	-	0.19	21.00	6.77
30128.m008744	+	-	-	33.90	142.26	2.07
30128.m008774	-	-	-	1.49	6.66	2.16
30128.m008946	-	-	-	0.14	3.94	4.82
30129.m000374	-	-	-	3.16	15.85	2.32
30131.m006854	-	-	-	2.93	12.45	2.09
30131.m006894	-	-	-	0.92	10.35	3.50
30131.m006912	+	-	-	0.00	8.73	13.09
30131.m006952	-	-	-	1.29	7.04	2.45
30131.m007007	+	-	-	1.62	19.17	3.57
30131.m007023	+	-	-	0.07	56.51	9.56
30131.m007024	-	-	-	2.76	16.30	2.56
30131.m007056	-	-	-	0.91	4.20	2.21
30131.m007097	-	-	-	1.81	28.63	3.99
30131.m007132	+	-	-	0.08	5.24	5.95
30131.m007137	+	-	-	0.91	12.52	3.78
30131.m007142	-	-	-	3.64	14.78	2.02
30131.m007207	-	-	-	0.22	4.01	4.20
30131.m007239	-	-	-	5.67	131.43	4.53
30131.m007269	-	-	-	1.18	22.73	4.26
30131.m007275	-	-	-	4.05	16.28	2.01
30131.m007283	+	-	-	1.61	12.54	2.96
30131.m007290	+	-	-	0.15	18.87	7.02

30136.m001054	+	-	-	0.36	2.36	2.71
30138.m003850	+	-	-	2.68	20.00	2.90
30138.m003899	-	-	-	10.33	65.85	2.67
30138.m003979	+	-	-	2.50	15.56	2.64
30142.m000643	-	-	-	2.23	9.18	2.04
30143.m001194	-	-	-	9.38	46.99	2.32
30143.m001220	+	-	-	1.69	10.59	2.65
30146.m003560	+	-	-	0.94	12.50	3.74
30146.m003588	+	-	-	0.70	4.94	2.82
30147.m013777	+	-	-	2.07	11.89	2.52
30147.m013779	-	-	-	1.63	8.08	2.31
30147.m013800	+	-	-	0.85	3.73	2.14
30147.m013903	-	-	-	1.35	6.74	2.32
30147.m013923	+	-	-	0.00	2.54	11.31
30147.m013924	+	-	-	1.77	12.66	2.83
30147.m013967	+	-	-	1.64	18.50	3.50
30147.m014047	-	-	-	0.27	2.69	3.30
30147.m014186	-	-	-	3.19	26.92	3.08
30147.m014204	-	-	-	0.00	12.24	13.58
30147.m014233	+	-	-	0.20	2.70	3.74
30147.m014251	+	-	-	6.47	77.70	3.59
30147.m014313	-	-	-	0.60	10.48	4.12
30147.m014346	-	-	-	0.15	3.26	4.44
30147.m014368	+	-	-	3.93	17.36	2.14
30147.m014396	+	-	-	1.25	17.41	3.80
30147.m014416	-	-	-	0.67	3.89	2.54
30147.m014472	-	-	-	0.53	5.51	3.37
30147.m014532	+	-	-	0.25	2.91	3.53
30148.m001484	-	-	-	0.79	4.72	2.59
30150.m000482	+	-	-	0.64	8.60	3.74
30154.m001142	-	-	-	0.28	2.47	3.14
30160.m000435	+	-	-	0.07	18.44	7.94
30162.m001262	+	-	-	0.59	3.24	2.47
30169.m006241	-	-	-	6.06	25.53	2.07
30169.m006243	+	-	-	4.38	18.05	2.04
30169.m006408	+	-	-	1.03	5.11	2.32
30169.m006437	-	-	-	0.51	4.34	3.08
30169.m006462	-	-	-	1.81	9.41	2.38
30169.m006465	-	-	-	0.74	6.53	3.15
30169.m006507	-	-	-	0.70	4.32	2.64
30169.m006542	+	-	-	0.08	5.10	6.05
30170.m013644	-	-	-	0.33	2.31	2.81
30170.m013711	+	-	-	0.00	56.06	15.77
30170.m013718	-	-	-	0.00	2.22	11.11
30170.m013729	+	-	-	5.17	48.56	3.23

30170.m013754	-	-	-	95.38	595.34	2.64
30170.m013762	-	-	-	1.05	6.39	2.61
30170.m013784	-	+	-	0.18	3.43	4.27
30170.m013802	+	-	-	2.36	19.03	3.01
30170.m013812	+	-	-	1.21	8.12	2.75
30170.m013923	-	-	-	1.29	5.86	2.18
30170.m013931	-	-	-	0.15	4.35	4.81
30170.m014003	-	-	-	7.35	30.14	2.04
30170.m014008	-	-	-	7.54	31.49	2.06
30170.m014074	-	-	-	15.92	72.77	2.19
30170.m014085	+	-	-	0.00	2.93	11.52
30170.m014122	-	-	-	0.75	3.78	2.34
30170.m014137	-	-	-	0.12	3.66	4.99
30170.m014204	+	-	-	2.64	11.30	2.10
30170.m014276	+	-	-	0.14	78.46	9.14
30174.m008633	+	-	-	4.17	23.83	2.51
30174.m008641	+	-	-	0.26	3.31	3.65
30174.m008646	-	-	-	3.77	87.56	4.54
30174.m008663	-	-	-	0.41	22.34	5.77
30174.m009001	+	-	-	0.00	10.45	13.35
30174.m009022	+	-	-	2.67	31.14	3.54
30174.m009028	-	-	-	0.23	2.38	3.35
30174.m009044	-	-	-	2.64	11.21	2.09
30174.m009122	+	-	-	0.23	6.67	4.86
30182.m000135	-	-	-	2.19	11.33	2.37
30185.m000921	+	+	-	232.99	1012.44	2.12
30185.m000956	-	-	-	2.83	24.23	3.10
30190.m010845	+	-	-	1.04	4.21	2.02
30190.m010925	+	-	-	0.09	3.14	5.09
30190.m010926	+	-	-	1.10	37.74	5.11
30190.m010965	+	-	-	1.80	7.81	2.12
30190.m011000	+	-	-	0.48	4.60	3.27
30190.m011027	-	-	-	0.11	2.23	4.34
30190.m011038	-	-	-	0.08	2.34	4.96
30190.m011058	+	+	-	4.37	20.77	2.25
30190.m011101	-	-	-	0.00	41.23	15.33
30190.m011113	+	-	-	1.17	11.12	3.25
30190.m011167	+	-	-	25.50	108.88	2.09
30190.m011202	+	-	-	0.00	11.33	13.47
30190.m011223	+	-	-	0.00	2.21	11.11
30190.m011224	+	-	-	0.26	2.18	3.07
30190.m011266	-	-	-	4.94	67.94	3.78
30193.m000700	-	-	-	0.12	23.73	7.60
30193.m000706	+	+	-	1.55	10.96	2.82

30193.m000721	-	-	-	0.66	7.85	3.57
30200.m000351	-	+	-	0.00	3.76	11.88
30205.m001597	+	-	-	0.30	3.89	3.68
30205.m001612	+	-	-	19.42	102.35	2.40
30208.m001102	-	-	-	3.77	28.11	2.90
30209.m001514	+	+	-	0.96	4.36	2.19
30213.m000676	+	+	+	0.35	29.54	6.38
30217.m000254	+	-	-	0.94	9.57	3.34
30221.m002232	+	-	-	0.13	7.72	5.92
30223.m000144	-	-	-	2.25	9.08	2.01
30225.m001719	-	-	-	0.67	2.98	2.16
30225.m001722	-	+	-	2.95	11.80	2.00
30226.m002042	-	-	-	13.36	60.37	2.18
30226.m002047	+	-	-	3.16	15.09	2.26
31177.m000029	-	-	-	4.34	22.35	2.37
31518.m000032	+	-	-	8.25	42.70	2.37
34500.m000016	+	-	-	0.65	6.35	3.30
48455.m000013	+	-	-	1.32	6.13	2.22
54190.m000015	+	-	-	3.58	31.39	3.13
54248.m000013	+	-	-	1.05	5.34	2.34
58361.m000013	+	-	-	5.95	28.18	2.24

/lated regions in each sequence context.

Annotation

alcohol dehydrogenase, putative
conserved hypothetical protein
hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
nucleic acid binding protein, putative
Esterase PIR7B, putative
receptor protein kinase, putative
conserved hypothetical protein
conserved hypothetical protein
peptide transporter, putative
zinc finger protein, putative
conserved hypothetical protein
calmodulin binding protein, putative
zinc finger protein, putative
N-acetyltransferase, putative
DNA-binding protein RAV1, putative
Calcium-binding allergen Ole e, putative
Protein SUA5, putative
Troponin C, skeletal muscle, putative
conserved hypothetical protein
protein phosphatase 2c, putative
PAC, putative
Chitin-inducible gibberellin-responsive protein, putative
Pectinesterase-2 precursor, putative
Transcription factor HBP-1b, putative
DNA binding protein, putative
Axial regulator YABBY1, putative
multicopper oxidase, putative
hypothetical protein
serine/threonine protein kinase, putative
cytochrome P450, putative
CBL-interacting serine/threonine-protein kinase, putative
serine hydroxymethyltransferase, putative
conserved hypothetical protein
short-chain dehydrogenase, putative
GAST1 protein precursor, putative
conserved hypothetical protein
catalytic, putative
ATP binding protein, putative
t7n9.7, putative
asymmetric leaves1 and rough sheath, putative
Phytoene synthase, chloroplast precursor, putative

lrr receptor protein kinase, putative
lrr receptor protein kinase, putative
abc transporter, putative
Beta-fructofuranosidase
conserved hypothetical protein
chaperonin-60kD, ch60, putative
beta-galactosidase, putative
RNA binding protein, putative
histidine kinase 1 plant, putative
Transcription factor HBP-1b(c1), putative
nucleic acid binding protein, putative
methylenetetrahydrofolate reductase, putative
Protein MLO, putative
prolyl 4-hydroxylase alpha subunit, putative
oxidoreductase, putative
LIGULELESS1 protein, putative
conserved hypothetical protein
cell division cycle, putative
pentatricopeptide repeat-containing protein, putative
conserved hypothetical protein
pheophorbide A oxygenase, putative
ATP binding protein, putative
conserved hypothetical protein
Vegetative cell wall protein gp1 precursor, putative
metal ion binding protein, putative
Protein kinase APK1B, chloroplast precursor, putative
conserved hypothetical protein
conserved hypothetical protein
Auxin response factor, putative
glutamate receptor 3 plant, putative
conserved hypothetical protein
transcription factor, putative
ubiquitin-protein ligase, putative
conserved hypothetical protein
calcium ion binding protein, putative
Triacylglycerol lipase 2 precursor, putative
60S ribosomal protein L44, putative
DNA binding protein, putative
Major pollen allergen Ory s 1 precursor, putative
ribosomal RNA small subunit methyltransferase B, putative
pentatricopeptide repeat-containing protein, putative
polygalacturonase, putative
nucleoredoxin, putative
hypothetical protein
aldo/keto reductase, putative

GATA transcription factor, putative
phosphatidylcholine acyltransferase, putative
Serine/threonine-protein kinase HT1, putative
gtpase activating protein, putative
conserved hypothetical protein
DNA binding protein, putative
Basic blue protein, putative
ATP binding protein, putative
hypothetical protein
ganglioside-induced differentiation-associated protein 1, 2 gdap, putative
conserved hypothetical protein
short-chain dehydrogenase, putative
ATP-binding cassette transporter, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
multicopper oxidase, putative
conserved hypothetical protein
protein binding protein, putative
alcohol dehydrogenase, putative
UDP-glucosyltransferase, putative
synovial sarcoma associated ss18 protein, putative
villin 1-4, putative
conserved hypothetical protein
hypothetical protein
eukaryotic translation initiation factor 2c, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein
Carboxyl-terminal-processing protease precursor, putative
ATP binding protein, putative
conserved hypothetical protein
receptor protein kinase, putative
acyl-CoA oxidase, putative
conserved hypothetical protein
Major latex allergen Hev b, putative
Amine oxidase [copper-containing] precursor, putative
Transcription elongation factor, putative
acyl-CoA binding protein, putative
AP2/ERF transcription factor
f12k21.25, putative

conserved hypothetical protein
ferritin, plant, putative
Nodulation receptor kinase precursor, putative
Protein LRP16, putative
conserved hypothetical protein
conserved hypothetical protein
calmodulin binding protein, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein
molybdopterin cofactor synthesis protein A, putative
DNA gyrase subunit A, chloroplast/mitochondrial precursor, putative
Kinesin-II 85 kDa subunit, putative
hypothetical protein
conserved hypothetical protein
kinase, putative
Non-imprinted in Prader-Willi/Angelman syndrome region protein, putative
conserved hypothetical protein
transcription factor, putative
bromodomain-containing protein, putative
asymmetric leaves1 and rough sheath, putative
ATP-binding cassette transporter, putative
peptidase, putative
conserved hypothetical protein
conserved hypothetical protein
serine-threonine protein kinase, plant-type, putative
sterol desaturase, putative
Glycine-rich cell wall structural protein 1 precursor, putative
tubulin beta chain, putative
bell homeotic protein, putative
DNA binding protein, putative
conserved hypothetical protein
hypothetical protein
class I chitinase, putative
hypothetical protein
GAST1 protein precursor, putative
brg-1 associated factor, putative
protein binding protein, putative
Myosin heavy chain, fast skeletal muscle, embryonic, putative
kinase, putative
conserved hypothetical protein
Xylem serine proteinase 1 precursor, putative
DNA binding protein, putative

conserved hypothetical protein
Glutathione-regulated potassium-efflux system protein kefB, putative
hypothetical protein
conserved hypothetical protein
hypothetical protein
ATP binding protein, putative
L-ascorbate peroxidase, cytosolic, putative
Floral homeotic protein APETALA2, putative
conserved hypothetical protein
Methionine S-methyltransferase, putative
ATP-dependent clp protease ATP-binding subunit clpx, putative
conserved hypothetical protein
Cysteine and glycine-rich protein, putative
conserved hypothetical protein
Ribulose-1,5 biphosphate carboxylase/oxygenase large subunit N-methyltransferase, chloroplast precu
hypothetical protein
transcription factor, putative
Nicotinate-nucleotide pyrophosphorylase [carboxylating], putative
Urease accessory protein ureH, putative
ferritin, plant, putative
conserved hypothetical protein
transcription factor, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
extensin, proline-rich protein, putative
arsenite inducible RNA associated protein aip-1, putative
WRKY transcription factor, putative
ATP-dependent helicase, putative
Oligopeptide transporter, putative
Maintenance of ploidy protein mob1, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
mixed-lineage leukemia protein, mll, putative
aberrant large forked product, putative
electron carrier, putative
conserved hypothetical protein
acetyl-CoA synthetase, putative
pheophorbide A oxygenase, putative
nutrient reservoir, putative
cyclin A, putative
conserved hypothetical protein
Polygalacturonase precursor, putative
phopholipase d alpha, putative

glycerol kinase, putative
Serine/threonine-protein kinase PBS1, putative
similarity to receptor protein kinase, putative
lactoylglutathione lyase, putative
hypothetical protein
acyltransferase, putative
eukaryotic translation initiation factor 2c, putative
protein kinase atmrk1, putative
ccaat-binding transcription factor, putative
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein
Acyl-protein thioesterase, putative
lipid binding protein, putative
conserved hypothetical protein
transferase, transferring glycosyl groups, putative
pentatricopeptide repeat-containing protein, putative
Axial regulator YABBY2, putative
conserved hypothetical protein
conserved hypothetical protein
cinnamoyl-CoA reductase, putative
short-chain dehydrogenase, putative
conserved hypothetical protein
Protein COBRA precursor, putative
conserved hypothetical protein
hypothetical protein
zinc finger protein, putative
o-methyltransferase, putative
cytochrome P450, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
protein binding protein, putative
conserved hypothetical protein
zinc finger protein, putative
DNA photolyase, putative
conserved hypothetical protein
purine biosynthesis protein 7, pur7, putative
conserved hypothetical protein
conserved hypothetical protein
TMV resistance protein N, putative
conserved hypothetical protein
WD-repeat protein, putative

conserved hypothetical protein
hypothetical protein
1-deoxyxylulose-5-phosphate synthase, putative
conserved hypothetical protein
ARF GTPase activator, putative
conserved hypothetical protein
serine/threonine protein kinase, putative
ubiquitin-protein ligase, putative
Protein kinase APK1B, chloroplast precursor, putative
conserved hypothetical protein
alcohol dehydrogenase, putative
conserved hypothetical protein
Alpha-L-fucosidase 2 precursor, putative
steroid dehydrogenase, putative
cytochrome P450, putative
conserved hypothetical protein
Thylakoid lumenal 29.8 kDa protein, chloroplast precursor, putative
conserved hypothetical protein
Chitin-inducible gibberellin-responsive protein, putative
syntaxin, arabidopsis thaliana, putative
LOB domain-containing protein, putative
hypothetical protein
Cell elongation protein diminuto, putative
cyclin d, putative
eukaryotic translation initiation factor 2c, putative
eukaryotic translation initiation factor 2c, putative
RAB6-interacting protein, putative
conserved hypothetical protein
protein phosphatase 2c, putative
conserved hypothetical protein
conserved hypothetical protein
RING-H2 finger protein ATL3L, putative
leucine-rich repeat-containing protein, putative
Phosphatidylcholine: Diacylglycerol Acyltransferase
conserved hypothetical protein
conserved hypothetical protein
transcription factor, putative
hypothetical protein
Glycine-rich cell wall structural protein 1 precursor, putative
conserved hypothetical protein
Phytochromobilin:ferredoxin oxidoreductase, chloroplast precursor, putative
hypothetical protein
Protein kinase APK1B, chloroplast precursor, putative
Protein kinase APK1A, chloroplast precursor, putative
Nitrilase, putative

ribose-phosphate pyrophosphokinase, putative
poly [ADP-ribose] polymerase, putative
gtpase activating protein, putative
conserved hypothetical protein
conserved hypothetical protein
ATP binding protein, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
ferric-chelate reductase, putative
zinc finger protein, putative
bhlh transcription factor, putative
conserved hypothetical protein
hypothetical protein
hypothetical protein
Single-stranded DNA-binding protein, mitochondrial precursor, putative
hypothetical protein
cationic amino acid transporter, putative
conserved hypothetical protein
cytochrome P450, putative
er lumen protein retaining receptor, putative
conserved hypothetical protein
Cellulose synthase A catalytic subunit 3 [UDP-forming], putative
glycerophosphoryl diester phosphodiesterase, putative
serine/threonine-protein kinase cx32, putative
nucleic acid binding protein, putative
conserved hypothetical protein
short chain alcohol dehydrogenase, putative
long-chain-fatty-acid CoA ligase, putative
rab1, putative
amino acid binding protein, putative
conserved hypothetical protein
protein phosphatase 2c, putative
conserved hypothetical protein
conserved hypothetical protein
zinc ion binding protein, putative
Flavin-binding monooxygenase
serine carboxypeptidase, putative
fad NAD binding oxidoreductases, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein
Cell elongation protein diminuto, putative

electron transporter, putative
conserved hypothetical protein
UDP-glucosyltransferase, putative
chloroplast 30S ribosomal protein S7, putative
retinal degeneration B beta, putative
cinnamoyl-CoA reductase, putative
Auxin response factor, putative
conserved hypothetical protein
hypothetical protein
conserved hypothetical protein
DNA binding protein, putative
Myosin-9, putative
hypothetical protein
pentatricopeptide repeat-containing protein, putative
transcription factor, putative
histone-lysine n-methyltransferase, suvh, putative
RNA-binding protein, putative
zinc finger protein, putative
zinc finger protein, putative
conserved hypothetical protein
calmodulin binding protein, putative
ATP binding protein, putative
D-erythro-sphingosine kinase, putative
chloroplast-targeted copper chaperone, putative
conserved hypothetical protein
conserved hypothetical protein
Small rubber particle protein, putative
multidrug resistance-associated protein, putative
Aspartic proteinase nepenthesin-1 precursor, putative
serine/threonine protein kinase, putative
diphosphoinositol polyphosphate phosphohydrolase, putative
transcription factor, putative
double-stranded RNA binding protein, putative
zinc finger protein, putative
hypothetical protein
Purple acid phosphatase precursor, putative
ATP binding protein, putative
conserved hypothetical protein
dfg10 protein, putative
DNA binding protein, putative
conserved hypothetical protein
Aspartic proteinase nepenthesin-1 precursor, putative
conserved hypothetical protein
conserved hypothetical protein
alpha-galactosidase/alpha-n-acetylgalactosaminidase, putative

conserved hypothetical protein
BRASSINOSTEROID INSENSITIVE 1-associated receptor kinase 1 precursor, putative
conserved hypothetical protein
conserved hypothetical protein
cytochrome P450, putative
delta 1-pyrroline-5-carboxylate synthetase, putative
lipid binding protein, putative
AMP dependent CoA ligase, putative
conserved hypothetical protein
short chain type dehydrogenase, putative
hypothetical protein
sentrin/sumo-specific protease, putative
conserved hypothetical protein
homeobox protein knotted-1, putative
nucleotide binding protein, putative
Polygalacturonase-1 non-catalytic subunit beta precursor, putative
HIPL1 protein precursor, putative
leucine rich repeat receptor kinase, putative
21 kDa protein precursor, putative
Structural maintenance of chromosome, putative
conserved hypothetical protein
Dehydration-responsive element-binding protein 1A, putative
histone-lysine n-methyltransferase, suvh, putative
superoxide dismutase [fe], putative
electron transporter, putative
gcn4-complementing protein, putative
conserved hypothetical protein
leucine-rich repeat protein, putative
conserved hypothetical protein
ATP binding protein, putative
conserved hypothetical protein
ctp synthase, putative
conserved hypothetical protein
short-chain dehydrogenase, putative
conserved hypothetical protein
ank repeat-containing protein, putative
GTP-binding protein enga, putative
poly(p)/ATP NAD kinase, putative
ATP-binding cassette transporter, putative
receptor serine/threonine kinase, putative
Ethylene-responsive transcription factor, putative
hydrolase, hydrolyzing O-glycosyl compounds, putative
Glucan endo-1,3-beta-glucosidase precursor, putative
copper transport protein atox1, putative
Calmodulin, putative

conserved hypothetical protein
Xylem serine proteinase 1 precursor, putative
serine-threonine protein kinase, plant-type, putative
conserved hypothetical protein
electron transporter, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
protein phosphatase 2c, putative
glucose-1-phosphate adenylyltransferase, putative
transcription factor, putative
cysteine protease, putative
f10a5.16, putative
dead box ATP-dependent RNA helicase, putative
Alpha-expansin 11 precursor, putative
syntaxin, putative
conserved hypothetical protein
polygalacturonase, putative
WRKY transcription factor, putative
r2r3-myb transcription factor, putative
60S ribosomal protein L36e, putative
Beta-amylase, putative
uridine cytidine kinase I, putative
ATP binding protein, putative
conserved hypothetical protein
chloroplast 30S ribosomal protein S7, putative
Auxin response factor, putative
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
21 kDa protein precursor, putative
conserved hypothetical protein
conserved hypothetical protein
sodium-bile acid cotransporter, putative
homeobox protein knotted-1, putative
DNA-directed RNA polymerase, putative
hypothetical protein
synaptotagmin, putative
transcription factor, putative
gibberellin 20-oxidase, putative
heat shock protein, putative
glutamyl-tRNA(gln) amidotransferase subunit A, putative
conserved hypothetical protein

beta-galactosidase, putative
hypothetical protein
conserved hypothetical protein
sterol desaturase, putative
RNA binding protein, putative
conserved hypothetical protein
receptor protein kinase, putative
DNA binding protein, putative
expressed protein, putative
conserved hypothetical protein
conserved hypothetical protein
GTP-binding protein lepa, putative
conserved hypothetical protein
calcium-dependent protein kinase, putative
hypothetical protein
Thermostable beta-glucosidase B, putative
conserved hypothetical protein
hypothetical protein
conserved hypothetical protein
conserved hypothetical protein
hypothetical protein

ursor, putative

1 **Supplemental Table S5.** Primers used in this study for gene expression profiles based
2 on qPCR.

3

Gene name	Forward primer: 5'-3'	Reverse primer: 5'-3'
RcMET1-1	TAATGGAGCCCCTTTCCGT	AGGTGACCATGTTCCCTCGAA
RcMET1-2	CAGTCCGTGAATGTGCTCGAT	CAAGTGCAAATGCCAGAGGAG
RcCMT-1	TTTCCTGGCGTGTTAGTTGGT	ACGTCCCACGAACAAACGA
RcCMT-2	ACCATCTGAAAAGCCACTGGT	GGATGTAACATTGCCTGGCTG
RcDMR-1	TTTCAGGTTGACACGGTTGCT	TACTTCAGCTCCACCAATGCC
RcDMR-2	GCAGAAGTTGCTTTACACCGC	CAATCTGCTCCAATTCCCA
RcDMR-3	TTGCTGATGTGCATGACCTGA	ATCTCGATGGTGTGCGTTGCT
RcDnmt2	TGCATTCTTTCCCAAGGAC	ATGGCCAGCCGACATACAGTA
RcDME	ACAACATGCTAGCCGAACGAA	CGCACTCCACGCTTTTCAA
RcROS1	TTGGTCAACTGCCACTTCCTC	TGTATGCGCTCTGGTTCTGGT
RcDML3	TACCGAGACCAGATCGCAATG	CCACGGACGGTTTCAGTTCTT
RcActin2	TTGGAATGGAAGCTGCAGGA	CCTTGCTCATAACGGTCTGCAA

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