









1 MKSNLKSTLYIIIFLYWYVHIKDEQKWVTVNAETPNLRNGWSIKNGDIHNGENNLNRKYADYLNDTVEGNS  
 71 KMDAIEEGLSGQSEDAIVKAQQEDGEVEGQQDEAALQSEDEKEAENAAEEAQKFATQAQGAEEQAQAAQ  
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 141 AAQDEAKKITENTEKIEEAVKQATDAKEEAENESREANNAKEEADAAARKAKENKEDAVNQKIKIAQAALE  
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 211 RAKTAATKAQTAKGAEKALETTKAEVAKELAAKEAREAEKTRAVEEAQQIAKQAEELKLTATKATQEA  
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 281 QAAQAAQDEAKKITENTEKIEEAVKQATDAKEEAENESREANNAKEEADAAARKAKENKEDAVNQKIKIAQ  
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 351 SALDKATNAATNAOKAKKEAEIALERTKAEVSKELAKKEVLEAEAAQKEAKDISDKMTIANKPVNKANLA  
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 421 SKRAEEALEKAKKHVATAESATEEAKGANAVEKAKEASTKAKEAEKNAKNERIKAQLAEEVAKAEAVKDE  
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 491 AEKESKAMDARRQAEAVKTANGAENAKKKAIEAGKAKGHLKKAELAKEVSSAEYEVTEDSVTKAKK  
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 561 VSEAQEEAKAKSAKELAVKAAEVATHILNAENAKKEAQQAKQAALQAKTDAKKYADQSNAEKAKEAATK  
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 631 AEAAATIATDKAKEAENEAEAAVAEAKVDPEQIPKKEEEVKKKATQAAVSEDAKKAKNEALIEAEVAKA  
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 701 EAAKEEAKKAHIAAGKAKKEEAEEKAAQTAQLSEVTDKSKAESMTTLAKEKADTAEKEANETNESAKSIQN  
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 771 EAKTEKPEDITKKIEDLKGKAEKVSNSAKEAKKAQTKAELAAAVAKAAVAKDEAKKAQDAADDANKKADE  
 g abcdefgabcdefgabcdefg abcdefgabcdefgabcdefgabcdefgabcdefg  
 841 AAKSVESKAKGEAASAAAKAKENATVAASAANEVSSKTKEAEEEEIEKNWGDEKKKEEITSKVNHVKQETS  
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 911 KSINAAEGAKRAKEVAELALKVVSAEVENDKAKKAVTAEAAKDEAKKAVESAESKSGEAESAVEDAETA  
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 981 KEEEEKEVEKKAQEAASENANAQAQLKIAEEEELKKAKEADNEEKLQSAKTKALEAVDEAVKKGQAEAAAN  
 abcdefgabcdefgabcdefgabcdefgabcdefg abcdefgabcdefgabcdefgab  
 1051 EAKNKAAKATQSAEKAKQAASALKKKLVLEIVKKYSKESYNTVDSDEHVLNEVEEQASEEEEEEEEE  
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 1121 EEAHESVSNVEIEDEEEEEEEEEEEETNTEGEKSEDNSPHSDTEPQEQNSVKPPEQSEKTLNDSNT  
 1191 QALLSDNYKNVANFKKMADDLTKNIISTIDGDTGVIDTLKDFaedlnqfifsm

PvMSP3.10

1 MKHTRSVTLYLFLTLCAYLGTAEVIGGSPNNEAPNSSRHHLRNGFPKNDLSPHEEPNNLEGKNESSDQ  
 71 CDTINLQVTEKEKKTIEQASVQAQDATKPEANNAEQIQAEQLQKVKTAKDESATAAKDAETAKKNVADAG  
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 141 KGLDAAKGAIKKAEAAAEAKKQAGIAEKAEKDAEAAAGKKDKLEDVNSQVQIAVEASTKAKDKKTEAIEIA  
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 211 VEIVKAVVAKEEAQKASDEAQKACEKAQKAHAKAQKASDTTKTVETFKTNAEAAAKNAKEKAGNANKAAT  
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 281 EAESANELSVAKQKAKDAEEAAKEAKKEQVKAIEIAAEVAKAKVAKEEADAAQKKAEEAKKIVDKIAQDTK  
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 351 VPEAQREAKLATQTASKATEAATEAGKKAQEAEEESKEAEEKAETSDAVKKGADAAEKAAGEAKKASIET  
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 421 EIAIEVAKAEVLNAEVKKTQOEAEKDATEAKEQAEKAKAAEEAKTHGEKAEKVGESTKAHSDEAQQENK  
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 491 NAKDASEEAENRAVDALAEAAYAVEAHLARTKNAAESAQSATDMSELEKAKEAIDAANIAHQWLKATQA  
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 561 ATIAKEKKEAAKVAAEKAQTAANVVKDKAAKAEAKKAETEAVKAAVEARAAEEAKQEAAKVGASKEPQE  
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 701 KNQYVLEPLDISPESADNITSKEEQVKEEMEDQGDSDSNEAEVEEALPNGSGAQEEDVNLEMDDEEEVEE  
 771 VEENVATNQQTGGKREKRNTNDTVDDTNADKQGFDEFDITYNDIKKVTEALVKSMTSLVSDDPSVGDITINE  
 841 FLSDMNHFLSW

PvMSP3.11

1 MRQFVRIAIFISLLNLYLQKDGAVRGEILNVNKTNLNRNGTPEEGVPSEGELPADAQEGKGGDSIKEVIKR  
71 ASEE**TAKF**ADE**AKEA**F**KK**AQSLAEE**AKEK**AEE**AKA**VGAMNGEKDTPPTTEKAQRASQAASAAEQK**SNEA**  
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141 QAA**V**RT**AKEQ****ETK**ALEAAQVVKGLAEKAEPTTGD**KDE****AEKKRKE**AEEALSAVKANLSAVEAA**KVA****AEINA**  
 efgabcdefgabcdefg abcdefgabcdefgabcdefgabcdefgabcdefgabcdefga  
211 AE**A**VEE**ANT****VM**KELAKVKATEAADA**AK**DLLGAEVAEGSNAKAEAEAHEFLKTTNQHIOQEFEEEMPSQGGD  
 bcdefgabcdefg  
281 HVKDKNEEVKEEVKEEAKKEEAKKEEVLESRGEEEEQTLEVEDDVDEEEDEEEDDDDEEDEDDEEDKEDEED  
351 DDEDDGGDDSDGNDSDDDDDNDGDDHDEDED