

>LdSTS1

MSLSPSYFILPDLFSHSTAFHDATNPFWKRAESRRWVNSYTVFVDRRRAFFQGSSELL
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QMTADFRERLVTTVKPKTFRRFMEHCDAYVDSVVEEAGLRDRGEILEEYVHLRRENSA
VRVCFGLISYILGIDLPEVFSPTFQKMYFSAVDMVCWANDLYSYNMELNRGLEGNNFIT
VLMKTQNMDIQAACNFVGGHYKQLMDDFLSAKASLRSFGSKVDVDVRRYIEACQHWPV
GNLVWSFETPRYFGARRDQIRRTRVVPLKPLEREPLSEDD

>LdSTS2

MSGLPQFYLPDLVAQWPWPRIINQHYEEAKPESDEWLRGFEALDVKSQRSFDRCNLALL
SSLGYPSLGKDCLRVACDLMVLFYIYDEYTDKLDGDGARDCADIVMRALRNPHKERSQG
ESKLGEITRQFWLRAIKVASESAQRRFLKSFAAFVYAIIDEASDRNDGRIRSITDYELRRLT
VGAYASFFSLELGLDIPDEVMTHPAMESLLGLVTDSIVLTNDVNQDLYSYNNEQAAGHGG
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HWIRGHDCWSFESERYFGTKGPEIQKHRVVTLLPRSTRPDVTPMMAQPVL

>LdSTS3

MHSSANSFYLPDLLVLSKPFKGSTNPHYKKAASRAWVNSYNIFTDRKRAFFIQGYNEL
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ALAKMTGEFRARLRTSGPFSFRRFLKHCQDYIECVAREAEYRERGEVLDMESFKHLRRE
NSAIRLCFGLFEYSLGIDLPEIFENPVFESLYWAAADMVCWANDVYSYNMEQAKGHTG
NNIVTVLMKAHGCDLQTASDIIGAHYAELMERYLADRERLPSFGVEIDADVQLYVRAMEN
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>LdSTS6

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DGFLARDAAGLADWVMNAFEWPDYSYRPVQGGQGGVEEISAAKLARDYWSRCIRDCAPA
VQQRFKSSMQMFFQAVHQQALFRANGVVPDLETYIDMRRDTSYGCKPVFDLIEYSLDLELP
DVVVEDPVIVALNQGANDLVTWSNDIFSYNVEQSRGDTHNICVYMIHDGLSLQQAVDR
VGNMCKRTIETFVENQARIPSWGDGIDEDVKLYVHGLREWIVGSLHWSFVTTTRYFGDDG
EFVRTTRIVDLLTQEEDAKGEVVDLSC

>LdSTS7

MSELQPQHLPDLAQAQWPWPRLSNQHYEETKPAFNEWVRSFEALDPKSQSAFDRCNFALLS
SIGHPLLKDCLRVTCDLMALYFLYDEYTDKLEDEDGVRTCADVVTDALRNPHKERPQGE
SKLGEIARQFWLRAIKVASEGAQRRFLKSFTTYAYSIIETSDRNSGRVRSIADCLELRRRTS
AVYSTLFCVELGLDIPDEVMTHPAMVSLALALIDPLMLTNDLYSYNIEQAAGHGGHNILTA
IMNEKGVLDGALDWFAEYNGAILSKFQAQYRMLPSWGPDLDPVITAYVERLCYWIRGH
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>LdSTS8

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ISRQFWELAIKTASPQAQRKFIKVFDAYAQAVVQEAADRGHKYVRSVHEYLEVRRDTIGG
RPAFSIHELGLNLPDEVVEHPAIEDMTAWAVDMLILDNDIASYNVEQARGDDGHNIVTIVM
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QWNFETER

>LdSTS10

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NEGEGRMGWRGNRQTIYSRFRWLAIKTASPPQAQKRFIKVYDAFAQALVQEAADRDEHI
RGVQYEFELRRDTISARPAFALIELDMNLPDEAVSHPVIEEMTILAIMIILDNDIASYNVEQ
ARGDDGHNIITIVIHKHKTDIHGAMNWWHNRHKELEAKFMDLYENKIPNFGEPVDTLLR
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>LdSTS11

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GEIAKQFWLHAIKVASDSTQRRLLDSFGPYVYAVVEEAADRQGRIRGITDYLDLVRASA
AYCTLFPLEMGLDIPDEVMTHPAMKTFDLIVYPLCLTNDLYSYNIEQAVPGHAAHLLTV
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>LdSTS12

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SKLGEIARQFWLRAIKVASEGAQRRFLKSFAEFAYSIIETS DRNAGRVRISITDYLELRRRTS
AVYSTLFSVELGLDIPDEVMTHPAMVSLALAVDPLMLTNDLYSYNVEQAAGHGGHLLT
AIMNEKGVDLGDALDWFAEYNGLTRDVPEPVPTPGSDELLIDVHSAGLNFFDSQGYQT
QPPRPVFLGAEFAGTVATAPPGSPYKPGDRVFGCCQGAYGERVVAKPVDVLPDLSFDQ
GAGEWLLVLAAGGVGIAAIQIGKVLGARVVACASPSKLNVRTVGGADVFVDYTKDG
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>LdSTS14

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KLGEIARQFWLRAMKISSPEAQRFFITFAEYVYAVIDEASDRANRVRGVEDYLLKTRLT
AGGYPSFLAAEAGLNIPDEVMAHPALQTLISLAAESLVTNDMYSYNIEQASGHGGHNIVT
VIMNEKRVDLDGALNWLAEYHGQVLSNFQAQRLLPSWSPEVDADVSTFVERLAYWIR
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>Cop1

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YHPYTYHGQARVGRMTRDYWRRMILTASPGSQRFIETFDFFFQSVTQQAIDRLTGEIPDL
ESYIALRRDTSGCKPCWALIEYANNLDPDEVMHDPVVRSLGEAANDLVTWSNDIFSFNV
EQSKGDTHNMIPVVMHQEGLDLQSAVDFVGMCKSAIDRFIEDQNYLPSWGPKIDRDLA
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>Cop2

MPSPAGALPKSFILPDLVNDPCFPPLRVNPLCDEVGRLSEQWFLRHANYSPRAVAFMALK
GELTAACYPDADAFHLRVSDDFMNFNFNADDWLDDFDIEDTYGLANCTVRALRDPVNF
TDKRAGLMTKSYFSRFLKTAGPCTERFIQTLALYFESVVTQKQARNNGTLPDLESYITIR
RNSGCKPCYALIEFCAGIDLPEVINHPHIIQSLEDASNDLIAWSNDIFSFNREQSRHDSFNM
VSIVMHQKGFALQEAVNFVGEKCKAMERFQADKRNLPSWGPEIDGEVAMYVDGLQNW
IVGSLNWSIDGTERYFGKDGPGIKKHRKVKLFKRPKTPAVRVA

>Cop3

MSTPSSSLTTDESPASFILPDLVSHCPFLRYHPKGDEVAKQTVHWLDSNCPDLTAKERKA
MYGLQAGELTGycypYtTPERLRVvadFLNYLFHLDNISDGMMTRETAVLADVVMNAL
WFPEDYRPTKGGQAAEELNPGKLARDFWSRCIPDCGPGTQARFKETFGSFFEAVNIQARAR
DEGVIPDLESYIDVRRDTSgckPCwVlieYALGIDLPDFVVEHPVIAALNQGtNDLVTWSN
DIFSYNVEQSKGDTHNMIILMEHHGHTLQSAVDYVgSLCQQTINTFCENKQQLPSWGPEI
DDMVAKYVQgLEDWIVGSLHWSFQTRRYFGDEGQEIKQHRLVKLLTVAPPPPPPPPTPPPQ
SSDADTKKQKVKAQDGKGPVSDeeVWALVRAEQSKGSILESLFGFLTtSLSRIFFGYFFAY
SH

>Cop4

MRPTARQFTLPDLFSICPLQDATNPWYKQAAAESRAWINSYNIFTDRKRAFFIQGSNELLC
SHVYAYAGYEQFRtCCDFVnLLFVvDEISDDQNGQDARATGRIFVnamRDAHwDDGSIL
AKITHEFRERFVRLAGPKTVRRFADLCESYtDCVAREAE LRERNQVLGLNDFIALRRQNS
AVLLCYSLVEYILGIDLdDEVYEDPTFAKAYWAACDFVCWANDVYSYDMEQAKGHTGN
NVVTVLMKEKDLsLQEASDYIGRECEKQMRDYLEAKSLLQSTDLpQEAVRYIEALGYW
MVGnLVWSFESQRYFGAQHERVKATHVvHLRPSSVLEASCDSDSDSDC

>Cop5

MVGSYTGKVIHVpALLESwPwPAAINPLYEQVQEESTSWFRKFDLYRDRKKQAIHDHLDt
AKFGASVCPKADYALLRLATDYLHLGFWIDYFFDTSpsDVIRQLTESIAHLLESgDPRLDSS
SPQSHIACMEILRDFRKRiETFNPSQEDLRRFVKEYRGFLEAELtQAIDHENKVIRDIESYLS
IRRSTIAIRPGIALGLALGIPQEILDDPYTDTLtNAACLDMVIIQNDAYSwnVEQVRKADGH
NIITVLMKQRDIDVQEAYEHAAQLHRETQEHLFELHAKRPDWGNEGSIQAFFDGLGEFVR
GVDEWSSMCLGEHALSVGAGFLK

>Cop6

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EKHEHPVLEAFAQFLRESSIRFSHFVANTVvSSALRFMMSIALEFEGQNVsvSTEAREYpG
YIRILSGLSDIYALFAFPMDLPRStYIQAPEQIDYINGTNDLLSFYKEELDCETVNFISAAAT
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MFHDFEHDLVCKCASCTEI

>Omp1

MKYTSFALPDLASSCDYNLRFNKYHRSVSPETKKWFFRLSPASQADLTtTYDAQRFtLLAA
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KMTSDYFKRIIQTSNDGtKKRFIDTMSFFKSVDDQARDRLAGHIPDLESYIALRRETSGC
KTCFSLIEYANNLHIPDEVIshPHIEQMETAANDVVSFANDIYSFNIEQSKGDTHNMIPVLM
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>Omp2

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RVGKMTRDYWKRLISTASPGTQQRFIETFDFFFQSVTEQAHDRQAGVIPDLESYIALRRDT
SGCKTSFVLIEYANNLDIPDGVMdHPLIRSLGEAANDLVtWSNDIFSYNVEQAKGDTHNM
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SLHWSFESERYFGKSGRQIKKSRVINLLPRRA

>Omp3

MAIENTIASAPASTPAKQLDTPDHFILPDLVSHCTFPLVYHSNGDAVAQAQSVKWLDTNCPD
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DAVMNALWFTEWYRPTKKSDYVQPDEELNAGKLARDFWHRCIQDAGPGCQARFKETLE
LFFEAVNIQAKARDAGVIPDLESYIDVRRDTSRGCKPCWALIEYGLGIDLDPDYVAEDPIIKSL
NQSTNDLVTWSNDIFSYNVEQSRGDTHNMIVILMLYHGHNLQSAIDYVGDLCRQTIDDFK
ENRKKIPSWGPEVDDIVKQYVQGLQDWIVGSLHWSFMTRYFGKQGQEVKKNRYVKLL
PVGEEANKW

>Omp4

MYIFCSQVVVSGLNKFTFKMSSAPTRFLLPDLLSACPLKGSVNPYYKEAGAESSAWINSYDI
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FLNALRNPENDDTSKLSKISKEFRARYFKRAGPRTAERFLQHCQDYIDCVTREAELRERGE
VLDLPSFTALRRENSAIRICFCLFEYALGFDLPQEVFDDPTFMEMYWAAADLVCWANDVY
SYNKEQAQGHGGNNIVTVLMKAKDLDLQAACDYIGVYCEELMGRYLSAKARLPSWGPE
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E

>Omp5a

MSPDPTRIVLPDFLAACPFESSTKNPHLKAAGAESSAWVNSHVFNDRKRAAFMQDIYEL
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ELTELCREFKARYSKRVSPQVNERFLQHLQSYTDCVAQEADLRERGEILDLESYVALRREN
SAIRPCFDLVEYIIDFDIPQEVIDHPVFSEMYWASVDLVCWSNDVYSYNVEQAKGHGGSN
VVTVLMKEKNLDLQAACDYVGVYEEELMDRYLSAKARLPSWGPEIDAAVGKYILAEAQ
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>Omp5b

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TELCKEFKARFSRRLSPQVNERFLQHLQSYTDCVAQEADLRERGEILDLESYVILRRENSA
VRPCFDLVEYIMDFDIPQEVLDHPVFSEMYWASVDLVCWSNDVYSYNVEQAKGHRGSNV
VTVLMNEKNLDLQAACDYVGVYQELMDRYLSAKARLPSWGPEIDAAVGKYVLAEAQF
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>Omp6

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HNLVTIVMNQYNLDLPGAMEWIGKFHDDIADKFLDTFAKLPSWGPEIDPQIRRYVDGLGN
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>Omp7

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VGGEVTRQFWELAIKTASPQSQRFIETFDTYTKSVVQQAADRTQHYVRTVDEYLEVRRD
TIGAKPSFAILELTMDIPDEVIHHTIERLAILAIDMILLGNDTASYNVEQARGDDNHNMTI
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>Omp8

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YTALLTSFDDVFEANVEQFGGFNERFMKGEPQEDFLDALARILLDAPRYYGRLATNIIVT
ATLDFFTGLFLELQARDMTFNEDLHNFVFCRNLTGIAHAYAVFMFPRDVPFTVYVRSLE
LKT DINYVNDIMSFYKEDRAEETDNLASILRQVHPSMTKHQVLQKIVDDAVEADVRARKI
LADYQPALDAYEHFRKGYAMFHVSSGRYRLDELFSYIRFE

>Omp9

MSQILHLLWSKFSTSLPSTVTIGSDPQTLQLVHSPAPNVNANALEIYKIVDNFLSRCGIRLES
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YTALATCFDDVFEKNVDHMSGFNERFMKALPQGDVFLDAFAKVLLDAPRYFGRLASNIIV
TSTLDFITSMSVDVLTGKMKFNQNLHNFAMACRNMSGIAYTYAPFIFPKEVPFAIYAQCLP
DMRIYINHVNDVLSFYKEDKAGETENLASILGQVHPSMTKYQIVQGLADDAEADLRVR
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>Omp10

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GLLRSTSKYFSSMLSSNLIVTSALNYVTSLSLDQGLHSIKATEHSRNFARLCRNMSGIPEAFA
AFVFPPEVPFTAYIQCFPDLYTYANYVNDVLSFYKEDIAGETENLVSILAQTQPNSSRYQVL
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>ShSTS1

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HRVYLGEAQPTGVLTYHQIQELSKMHEGDAVFRGLAVAPWITFIDACMLEKRLTDFDSK
LRVSPRDLGYQRLRNSTDFSLRAPKATPSEVEVSFPIFLRHKSGIGEAYAAAIFKSSRYQEL
PLSRFVKSMPTMIYYIELVNDLMSFYKEQLAGETANLIHLQHQSWKGGQGTGPYGSWTL
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YVSWHLECQRYKLDFIKLSTFE

>ShSTS11

MAPESSAWVSSYNLFSDRKRTDFITGSNELLVSHTYPHADYDAFRTCCDFVNLFFVIDEI
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DYIDCVAKEAEYRERGQVLDMDSFKSLRRENSAIRLCFGLFEFTLGLDLPDSVFEDEFMK
MYWASADMVCWANDVYSYNVEQAKGHSGNNIVTVLMAARDIDMQAASDYVGEYYAE
LMEEYMTAKAELASKSFGSRDLDEDVWKYVNAMENWPIGNLEWSFKTNRYFGTLHDEV
KRTRLVVIKPRKVVV

>ShSTS18

PRHINPHYQEVKKASA AWAESFGAFNPKAQHAYNACDFKRLRTGCDLMNMFFVFDEYS
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SYTQSVVQAKDRHHGFIRDVDSYLEMRRETIGAKPSFVVLQMDMTLPDEVL AHPVIQQ
LSALSTDMICLGNRRLIQILWTVQDICSYNVEQARGDDLHNIITIAMNQFDIDIAGAMDWV
VKYHAKLERKFLYLYNNGLPSWGKELDPQVERYVCGL

>ShSTS15

MVRSPVSDKFCIPDTLASWPYPRILNPHYAEEKAASAAWTKGFGAFGPKAQDAFDRCDFK
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WERAMCYASEISQRRFIDTFDEYLESVVDQAADRDSARIRDIESYINIRRNTIGAKPSFVIM

EQGMDIPDNVFENEVFQRLRMATIDMLCLGNDIVSYNIEQARGDDSHNIVRIVMNELDTD
VPRAMDWVAQRHTQLEREFFTALSELPTWGEPIDGWVKEYVYGLGNWVRANDQWSFES
QRYFGTKGMEIMKSRWLSVLPKVRPAEVGPQLVDQSL

>ShSTS16

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KDIVMDALRNPHKPRPEGEWVGGEVARQFWALTITNASAQSQKHFIETFDEYLDSVVQQ
AEDRSESIRIDIQSYIDVRRNTIGAKPSFALLELDMDLPDEVLAHPTIQSLSLATIDMLCLGN
DIVSYNLEQARGDASHNIITIVMNELNLDVNGAMRWVGDVHKQLEKQFFEAFNNLPKWG
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QLVDDSil

>ShSTS3

MSTAKPEIPPMESFPPINVYPREAEIHKYCN NYVAEHFPFNDAEVKHFNGMEIPAYACRVV
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SDISAELYGAVRDDMPKADYDRMVNDMMEYLRVQRMAPGYNTLQELDLRSGEVGVY
VLFRIIYAMELSVSGKELDDPLVKRAQVLGSEAGVLRNEASSYVKEVNEGSGAHNVITK
LQEWGCTEKEAMKQVLDAIEKRQEELREMCLKVTEAPHLSEDCKTFVKTIPIYVAGNT
WVHHHSTRYAEGRETVP

>ShSTS4

MSETKVGKVAPFPPLPGAPYPPVRNHPRWKGAPAADFDRMVWGARIAGIFFLADDYIDSG
KMLDRIPGFKAVCTFLPHKEDQAEICHDIVFRAIKATSHPRTFDQLTKCTHEWWD SNIHE
PFQNL DQYLAVRRVNIAMV TYFRYTL DINLTDEQVNHPLMREAEGIVSDHVGLTNDFFSY
LKEKMTNSDDTNIIRILMDHEHLSYEEAKTVIEKKIRQKEQDFIGAGMAVLNDPELGKDRE
IYRWIANLQYCMGGNLAWSQEVSENHYGIHVLDIT

>ShSTS5

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SHAPTS LD FPYAAMLQSLFNRIKTTATKGASERFIQAFKDWSSSQVMQSRNRSKLLLPSVE
DFILMRRNTIGAALVEAMIEYSLDLDPDYVFRDPVVIAMSEATTDIMTWPNDLCSFNKEQ
ADGDYQNLVCCMAQYDLGLQDAVDRLVGMISTRVRDYITLKEQLPLFGAEVD TMLRKY
HAAL EHYVQGTIVWYSSPRYFHGEQIIEKESTRILFSKASSKDCS

>ShSTS7

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AFLRLRAGDLASMCYPDASAKSLRVVADYMN YLFLKDDWTDEFEAEDVDGMRDCVLA
ALRDPLHYETDKAVGKLA KSFFGRFVQHGGPLRTRKRFIDTMV LFFRAVRQQALDRTYDDI
PDLESYIALRRDTSGCKPCFALIEFAGGYDLPDAVVEHPSIQILQDATNDLVTWSNDIFSYN
VEQSRGDTHNMVVVLMHEQGLAVQE AIDAVADLCERSIDTFEQTRRSLPSWGPVDSNVE
SYIDGLQNWIIIGSLHWSFLTERYFGKDRRDV KRKLFVKLLAKRC

>ShSTS8

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QMTRDLRARVVSTGVKPHTRRLVHMCRDYIASVVEEAGLRERGERVLDIESYIELRRNNS
AVLTCFALIPYILGIDLPEVVNDPNFSALNLA AVDMVCWANDIYSYDMEQAKGLEGNNI
MTVLTEMHGLTMQDASDYVGEQYKALMDLFLDNQAALRSFGPSVDADVRRYVDAVRH

WPRGNLSWSFETPRYFREKREEIENRTRVILRPRPEPKMKSQN

>ShSTS10

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AVCKVELLVAYAYPHANYETFRCCDFMNLIFAIDEISDMQNGEDAGETGDVFLNALRDA
EWTDGSALAEMTRDFRARFLRSAGPQSFRRFLKVSEDIYDCVTKEAGYRERSQILDMESF
KHLRRDNSGVPLMLGLLEYTLGIDLDPVVFEDTALSRIYWAAVDMVWWANDVYSYKVE
QAKGLAGNNSVLMMAKNIDLQDASDYVGDVYAGLMKEYTEAKAELVSKSFGSKELD
AAVKKYVDKMENWPIGNLEWSFASMRYPGSGEIKRTRTVMLRPQDVLA

>ShSTS12

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VRCAFGMVEHTLGLDLPDVFEDATFMKVYWAAIDMVWCANVNMFPFPGYLIQDVYSY
SMELAKGDNHSANNIMSVFMAANGVSLQAASDYVGRHYARLMEEYLSARAEASKSFG
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>ShSTS13

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TLSQERFMEGVRDCMAGMVRESLARKASRQHDSIHGFLKTRRDSAGCNLVFALSELEVA
VPAEAMKHSQIRELIAIQDISCIANDTFSYRREQSRGRTEENIITVVMNNLGTDPGAIDWV
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>ShSTS17

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>HS-HMGS

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DVEGIDSKNACYGSTAAVLNAVNWIESSSWDGRYAIVFAGDIAIYAEGPARPVGGAGAVAL
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>CpSTS1

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DNIGSDPSFALLEITLEVDLPHEVMEHPTIVALARDTTDMIVLANDMCSYKKEIHADDANY
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>CpSTS2

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CYGLIEYCYGIDLPEAVYEDSTFMDIYWAAVDLVCWTNDVYSYDMEQSKGIAGNNIVTVL
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>CpSTS3

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>CpSTS4

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HEFGQGLGHAVNWIESYNKSLRRSFLSAIERVPSWGEEIDTQVAEYLYGLANWVRANDC
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>CpSTS5

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DLESYITLRRDTSGCKPCWALIEYAYNLHIPDEVMEHPLILSLGEAANDLVTWSNDIFSYNV
EQSKGDTHNMIPVVMNQEGLDLQSAVDVFGQMCKQSIDRFVEDASNLPSWGPEIDRDVA
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>CpSTS6

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>CpSTS7

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EITRQFWERSIPHITATSHRRFVCALEAYLKSNVVQARDRSSQHIRRIEYFSTRRDNIGTKP
AFVLELGLDIPDCVMTHPSIQSAVTSLTDMLIIANDVFSFKVEHSRDDDANNVLKVVME
LRCNLARAIEWADERNQQLRTTFLSSIAEVPSWGGQVDIQVSEYLYGLANWVRANECWS
FESQRYFGTHGPTVQKDRWVSLDCGHPQCITGGTTTPRTSYRPLYVGMGLGIATYALSQYG
LMSRATLLRR

>CpSTS8

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HLDLQAAVEYVAKHCEVLAAQFIEAHANLLARSDPNFSEDAARVLDALGDAVIGNDRWS
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>CpSTS9

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VLDIPSYILFRRETSAVKTCFDIVEYCLGLNLPQYVHDDPVFVSGYNAAMDLVFWANDLFS
YNMEQAKGHSGANIVTVIMKSKRVDLQTAADFVAGYCEALTAQLLEAKQILSSRSDPAYS
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>CpSTS11

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RETA AVRVMMDTVEYCAEELPRTVLDDPVFQVAYDAALDLAFGTNDIHSYNMEQSKDH
SGANVITVIMKERGLDVQGAMDYFGGYCEALTAQFLDAKRKIEKREGQEWKDAVLILDG
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>CpSTS12

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>CpSTS13

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>CpSTS14

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TTLSL

>CpSTS15

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CWLTLGAYWVQEITPEHLKTEKIWLLQELSLFHGILINDLFSYRKEVKASSQEVQDHDK
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>CpSTS16

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GHHAANIVTVFMEAQNIGLQAAMDYAGGFCHGLVLQILEAKELLAARSDPVFSNDAVKV
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>CpSTS17

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>CpSTS18

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>AcTPS4

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>AcTPS5

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RGDTHNLVLCVLMHQNNVDRQEAIEQAGELWRKTLDYFECCHKALPSWGPEIDRAVALYV
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>AcTPS7

This sequence is not available.

>AcTPS9

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>Tps1A

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>Tps2A

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>AncA

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>AncC

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>BvCS

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>GME3634

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>GME3638

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>GME9210

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>Agr1

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>Agr2

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>Agr3

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>Agr4

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>Agr6

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>Agr8

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>Agr9

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>Agr10

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>Copu1

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>Copu2

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>Copu3

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>Copu5

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>Copu9

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>Pilcr_825684

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>Galma_104215

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>Sphst_47084

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>Denbi1_816208

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>Denbi1_659367

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>Hysu1_138665

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>Pro1

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>Hfas94a

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>Hfas94b

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>Hfas255

This sequence is not available.

>Hfas344

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>Cun3817

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>Cun5155

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>Cun3157

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>Cun0773

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>Cun7050

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>Cun0716

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>Cun9106

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>PpSTS09

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>PpSTS10

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>PpSTS14

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ESLLGEITRQFWERAIAATPSSQKHFI EAFTDYLSVVEQAADRDNHIRTVD SYLKTRR
ENIGARPSYFPAELGLNLPDEAFYHPVVELSYNIAELIILDNDIASYNKEQATGDDRHNILT
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>PpSTS29

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>Fompi1

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>PcSTS01

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NVEQSKGDTHNMIVVVMQQDGLDLQSAVDFVGDLCQQSIDRFVYERDNLPSWGPEIDRQ
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>PcSTS02

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>PcSTS03

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>PcSTS04

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>PcSTS06

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>PcSTS08

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STLLDRTTSNRVCLTAGSLPYVLYKRAINGVGD SFALFAWEKDRFPDDSLFLQVLPDLCRF
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>PcSTS11

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PQLHPVLDH MVEILHGMDEFPP LAVK GIVQGTVDYMN VN AFEPHAEKLP LHPAALS YV
TARRMKHGLAEPFLMFLFDKFNYPDVSTWVQAVPDMMIYTNWANDIYSFHKEILADDVH
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>A8411

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ARNVITVA VTKQSVVTMLVGPNAPIVMEPVRGVFTDNHTQKLPSSYFTALQKSYESYLK
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>GsSTS43

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>GsSTS45a

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>GsSTS45b

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>GsSTS26

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>GsSTS27

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>GS02363

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>GS14272

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>GS11330

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>GL26009

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>GLSTS6

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>STC4

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>STC9

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>STC15

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>AbSTS05

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>AbSTS07

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>AbSTS09

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LMELGFN

>AvSTS01

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>AvSTS03

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>AvSTS06

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>AvSTS07

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>AvSTS09

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>LnSTS01

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>LnSTS02

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>LnSTS04

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YFKIRRG TIGVHPSFDYLLRDDL PDECVNHPDVQRLASAAVDMTILANDVYSYNKEQA
KGEDSHNLVAVVMKEHDLTVQEAMDYIGDLYNHIRKQYCEKFQDLPRFNDDVDGLVREF
CYGTGIWVTTNIKWSFASERYFGKEGMEIMKHRTVTLLPKVDKLFK

>LnSTS09

MNHTTTQILLPDLISMLPLEGATNPHYEKGAESRAWINSYNVFTDRKRAFFVLGSNELLV
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RMTKEFRSRYTKLAGPNTTARFLKYWESYCAAVITEAELREKQILDVDSFMELRRDNSA
VRLCFGLIEFCFGTDL PDEVFEDPTFLKIYWA AVDLVCWANDVYSYDMEQSKGISGNNIVT
VLMHDKNMDLQTAVDYVGTYSKELVDRFMDLQAHLPSWGS AVDSQVALFIKGLGYWVK
GNLDWSFETQRYFGPKHMEIKNTLLVTLRPLECPEETDSESDTE

>LnSTS19

MALYSLRSLLP TLFSAISPISPLDSSMNYHTYRLSDEEIERSIYRDFLRKMEYCKPDLHDAE
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VDSEPCAAFPRLLRGQKQLDPVLDAFADVLNSMHDYYDSLAAANQIVTSILNFINLTPVES

QIAAGTFTVPSRSRRFPGLRDRSGLGVPFALFAFPKSQGLDTAAYLRALPDMDFWICAAAN
DLLSYHKEMLAGETNNYVSSRALVEKKTPLRVLVELERELEESRNVIHATLSSHAAIKAW
RAFEVGGVAWHLEQKRYKLDLALDQQVTARG

>LnSTS20

MAPVSLIRPTSANVVQDLNKTGILRRFLQGMAYCPSNISGTNEELEKIMRAEMNNRNIRCP
QLEKTLHLAASLIELGYHDCTLTEKTNIALYNWYLIYIDDMSSKDTGPFMAFQERFLRRMP
QLNPVLEALVGVLMRIYELYDMPTANSILSATFNFVNSTCIEPEIETLPLTRGLVRFWFLRD
QTGVAIAFALLLFPKSKNVGVTDYIQALS DMNFWISVTNDILSFHKEELAGERANYVYNR
AYIEDKVPLSVLAEMSQELFESRNAVYAALHCPQAADVWHTWEQGYVRWHIDQKRYK
LSELSL

>LnSTS25

MSQDTSKAKFEMA AVLKEFLQETAYHPPTIPSTNEELENKMYEYMHGRNLACPQLERTLH
LAASLIEIAFPECTLSEKTVIAIFNWFIIYIDDTSPGDVSPFVAFGPRFFSQTQQLDPVLDAFV
DILQRICDQYEPATANYILASAFNYISSTCIEPEIEAHAVVPGVIRFPWFIRGQTGISLAFALM
LFPKSKGVSAVQYIQVLEEMNFWISGVNDLMSFPKEQLAGERNNYVHVRARTEEKSPME
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>LnSTS27

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DDDALRTYIIFYIMFMFYVDDKYFEQSDKESGLLHFIARFNQNPQAEPSTNFADFLRDD
TAAVFEPIGGGIIITSTLNFINGMILETSVKLGQISPYAQNFYFVRNKS GFPEACVILAFPRD
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LRFGDKA

>PoSTS01

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SKGDTHNMIPVVMHEEGLELQAAVDFV GALCKQSIDRFVECRANLPCWGPEIDRQVAVY
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>PoSTS02

MSTLISPDPHFILPDLVSDCTYPLRVNDNCEEVARVSEQWLLNAANHNERKRR AFLGLKAG
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TDKRAGIMTKSFFSRFIETGGPGCTERFIHTMDLFFKAVAIQAADREKDVIPDFESYITIRRD
TSGCKPCFALIEYASRIDLPDEVAEHPLIRSMEEATNDLVTWSNDLFSYNVEQSRGDTHNMI
PVIMHQRDNLQEAVEYV GALCKSSIQRFETDRKNLPTWGPEIDRDVAVYVEGLQNWIVG
SLHWSFDSERYFGTSGLEVKQQRIVKLLPKVPS

>PoSTS03

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WHPEEYRPTRSPGKEQPAEELDAGKIARDYWSRCIPGAGLGVQARFKESLQLFFEAVNVQ
ARARDAGEVPDLESYIDVRRDTS GCKPVFDLIEYAMDFELPEEVVNHPVIKALNQGTNDL
VTWSNDIFSYNVEQARGDTHNMIVILMKYHGHTLQSAVDYVGELCCQTINFCANRQVIP

SWGPEIDRMVQEYVQGLQDWITGSLHWSFKTHRYFGTNGAEVKKTRLVKLLPLKNGAN
PCAGEATK

>PoSTS05

MSSQPTQIVLPDLLAMCPLKGYTNPHYKEAAAESVAWIDSYNVFTDRKRAFFVQGCNELL
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SRITKDFRARYFRLAGPNSSRRFLKHCEYINAVSTEAE LRERGERVLDIEPFTALRRENSAIR
LCFGLFEYALGIDLPEVFQDKTFQDMYFAAVDMVSWSNVSYNMEQAKGHSGNNIVT
VLMKSKGMGIQEAVDHVGVHFQQIMDIYMDSKTRLPSWGSEVDVNIARYVEALGHWAK
GNLDWSFETQRYFGAEHLEVMATRVVTLRPHGSPEDFDE

>PoSTS06

MTSTTKHPLPSHFILPDLLDQWPFETEPNPHQEIVDD SARWVESYKAFSPKAQDAFNRCNF
GIFASLAYPRSEGTHYRAACDLMNLLFFVFDEFSDAENGDVVRQQAADIMNALRYPDKIPA
GGDSILGAMTRDYWKRTLEVSSKSSAERFIRNFDGYTDAVRQEAVDRDEGRERSIEEYME
LRRGTIGVYPSFDYFLEDDIPDEYIDHPAVASLALGAVDMTILANDVYSWNVEQCRGEDR
HNLVAVAMREKGLSVQEAMDYVGTIYAGIRDKYVKEFNELPQFPEKYDKLVKDYCWHM
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>PoSTS11

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HPLFPVMTSLAHNVMSLEPVFHESFITENLASVQAIVQE AIDREVDDAPSRQPRTLEAYYI
NRLATVGLMPFLILAQWTGGIRLPAFIQDSSVQTMSSQA AVEMVFLANDIYSYKKEKMAG
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>PoSTS16

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LVFPKSLPISSYIQAVPEINVYVENTNDVLSFYKEQMAGDDIN YASLLSHSYSVTKYEALIH
LSNIAVDANERILRLLEPVPEALEAYTRFRNGYVRFHTGLGGRYKLAELKLTNISDYQDRL
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>TvSTS01

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THNMIVVVQTQEQLDLQSAVDYVGDLCGCVDRFETLRAALPSWGPQIDDLAVYVQGL
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>TvSTS05

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CKMTKEFTARLLEHCGPQTYRRFIKHCKDYIEAVAVEADLRERGERVLDLEAYQTLRENS
AVRFCFGLAGYALGIDLPEVVEHPAFMAMHLSTVDMVCWSNDLYSYNMEQAMGHTGN
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>TvSTS06

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GGDSILGAMTRDYWKRTLEVSSKSSAERFIRNFDGYTDAVRQEAVDRDEGRERSIEEYME
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HNLVAVAMREKGLSVQEAMDYVGTIYAGIRDKYVKEFNELPQFPEKYDKLVKDYCWHM
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>TvSTS07

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DPSYALAMARVDLPLAVSELVFRKLRGCITDMLIFDNDLLSYRKEYAAGDDMHNIITLV
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RGDECWSFESGRYFGKDGARVKKERVIELKTRD

>TvSTS12

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SHRFD SYAGMSFPDADA AHLETCIAFFWFASFDDLSDEGALQSKPDAVQVGV DISMEVL
KNPAAPAPNFPYAAMLHDIWRRFRSTASPGACNRFYRAVESWMNSQVEQARNRSTDEIPS
VEDFIILRRRTIGGPIVEAMVEYSLNLQIPEYVWDHPVLQEMSKAVIDIMTWPNDLCSFNK
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YNKAMEQYTQGTVVWYYSRYFRGQDVS GKTEIVVPYERAAPVEEAAPAPHVSTTDS
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>TvSTS14

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AREALGDSALDRLVTNLQDMYAYPRLSAHSIAVSTL DFFVGSYVEATGKEMAVAPGATK
YPGYMRMKTGIGAAYALFNFKDWRDPADHFFLQLIPEIEFY TDTINDILSFYKESLAGET
DNLHLRAAAEQKDPLSVLRDVVEETLESIRKVEVLTAADPQLAKICRSYVVG YVEFHFR A
KRYRLEDLEMEY

>TvSTS16

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ETAYVHTTLEHRFFVARYCAYFLYADDLPGRCLDALIQFPRRFANREQQLDPILNRLAEMIR
GAHELWTDV GASAIAGTLDALTA FYIEYTT CGLAVKPQAVRYPYYLRLKSGIDPPFVAFIF
MRGWRDTAESYVQMLPEIEY WIGATNDLLSFYKEELAQETNNYIHIRAAMEQTTGLVILR
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>DS3

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LERKATPSQWALFDHVFTSASAHQRKPNLGF FKHVIERTGIDPSCTIFVDDKLE NVLTAR SF
GMHGIIFDNESKVIKDLKNLCYDPVLRGKRFLT SHKKNLKT VTSNGIEFMDDYSQLVILLA
TGDDSLVDYVKSPGQFNVPDGT LFTTEVYPNDLDTTAIGLTVTDHVDAGTKHKIMDEML

EYRSDSGIIQVYFDHSRPRIDPVVCINVLNLCENGRGHHELPETLDWVEQVLIHRAYISGTT
YYIGADVFLFFLSRLLQNSAEVRRRLGSIFKERVIERFGVKGDSL SLSARMI AATVAGVIDE
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>SiTPS

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EVL SAAAVSAAPAAPV ASPAPQPEILSPTPISPIN VNFPLGNVACPPPSYETQRVLAKMVA
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>IIIS

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LL

>LbSTS4a

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ERMIKDYRARFFKSTGPVLQRRLLKDWEATFNAFPKELEVRESKEVLSIEEYTLIRRDNCA
LRMGFTHIEYALGIELPDEVYQNPVFENEMYLAALDMAWLLNDVYSYGKEHAKGQATWN
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GTLRWC FEMPRYFGPRYEDVRFTYLVDLGVFEG

>LbSTS6

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LYTAFLIYLDDVFQHDIELVYCFNERFILCQPQDDPVL DGFASLLREFPQHFGRVVSNIMTT
STLNLVTALLLEHETQNMKSSLD AHNYP TFSRVMSGASETYALFAFPQIPMPFYIQALPED
MMFINNVNDVLSFYKEDSAGETVNRVSNLARCHGVSKMEVIHRLS QDAATCHSQVLRILS
PHRDAHTAYANFSQGYIGFHASLARYRLNELFS