



ggggatcctctagagtcgacctgcagttcattcagggcaccggacaggtcggcttgacaaaagaaccggggcgccctgcg
 ctgacagccggaacacggcggcatcagagcagccgattgtctgttgcccagtcataccgaatagcctctccaccaagcg
 gccggagaacctgcgtgcaatccatctgttcaatcatgcgaacgatcctcatcctgtctcttgatcagatccatcaggcaacg
 acgggctgctgccggccatcagcggacgcagggaggactttccgcaaccggcgttcgatggcgaccgatggccttcgcgc
 aggggtagtgaatccgaccaggtgacttgctgctgcctactctcactagtggggcgccagcgcgcatcaagcgggtgagcg
 cactccggcaccgccaactttcagcacatgcgtgtaaatcatcgtcgtagagacgtcggaaatggcgagcagatcctgcacgg
 ttcgaatgtcgaaccgctgcccagcaaggcctgcgcaacgagtgccggagggtgtgctggtgtggcgggcttcgtgatgcc
 tgctgttctacggcagtttgaaggcgcgctgaaaggctggcatacatgtgatggcgacgcacgacaccgctccgtggatc
 ggtcgaatgcgtgtgctgcgaaaaaccagaaccacggccaggaatgcccggcgccgatacttccgctcaaggcgctcg
 ggaagcgaacgcgctgcggccctcggcctggtcctcagccaccatgcccgtgcacgcgacagctgctcgcgaggctgg
 gtccaagctctcgggtaaatcaaggcccgatccttgagaccctgccctcccgcacgatgatcgtccgtgatcgaatcca
 gatccttgaccgcagttgcaaaccctcactgatccgatcccgttcatacagaagctgggcaacaaacgatgctgcctt
 ccagaaaaccgaggatgcaaccacttcatccggggtcagcaccaccggcaagcggcgacggccgaggtcttccgatctc
 ctgaagccagggcagatccgtgcacagcaccttccgtagaagaacagcaaggccgcaatgctgacgatcgtggagac
 cgaaaccttgctcgttcgcccagccaggacagaatgcctcgacttcgctgctgccaaggttgcgggtgacgcacaccgt
 ggaaacggatgaaggcacgaaccagttgacataagcctgttcggttcgtaactgtaatgcaagtgcgtatgcgctcacgc
 aactggtccagaacctgaccgaacgcagcgggtgtaacggcgagtgggcgggttttcatggctgttatgactgtttttgtaca

gtctatgcctcgggcatccaagcagcaagcgcgttacccgtgggctcgatgtttgatgttatggagcagcaacgatgttacgca
gcagcaacgatgttacgcagcagggcagtcgcctaaaacaaagttaggtggctcaagtatgggcatcattcgacatgtagg
ctcggcctgaccaagtcaatccatgcgggctgctcttgatctttcggctgagttcggagacgtagccactactcccaac
atcagccggactccgattacctcgggaacttgctccgtagtaagacattcatcgcgcttgctgccttcgaccaagaagcggttgt
tggcgtctcgcggcttacgttctgccaagtttgagcagccgctagtgagatctatatctatgatctcgcagctcggcgag
caccggaggcagggcattgccaccgcgctcatcaatctctcaagcatgaggccaacgcgcttggtgcttatgtgatctacgtg
caagcagattacggtagatcccgcagtggtctctatacaaagttgggcatacgggaagaagtgatgcacttgatcagc
ccaagtaccgccacctaacaattcgttaagccgagatcggcttcccggccggagttgttggtaaattgtcacaacgccgc
ggccgcaaagcgtccggcttaactcaggcgttagtccatcaccgcttatgcgcgagccactatttcagcgtccgcct
gttccaaaggctttctagcctttgggctccagcgttgtagcagaagcgcaccagctatccttctgagcgtgcgccgt
tcgtggtccagcggttttctgggctgcgcccttctcaagccggcgctccctttggccttcgggttaactctgcggtcaa
gcggaccgcattctgcgggcttaccttgccggttagacatcatgaggtagcggtagccatcgaatttctctgagctgt
aacagcctgaccgcaacaacgagaggatcgagaccatccgctccagattatccggctcctccatgcgttgctctcggctct
gctccggtttccatgccttatggaactcctcgatccgccagcagtggtataaatgtcgatgacgcgcaaggcttgggctagc
gactcgaccggttcgctggcagcaacaaccatttcaacggggtctcaccttgggcgggttaactcctcggccagcaccgcg
ttgagcgtgatattcccctgttttagcgtgatgcgccactgcgcaggctcaagctcgccttgcgggctggctgattttacgtt
accgcgttatccaccagccctttgcggaatgctgatctgatagccaccaactccggttggttctcagatggctgtacagat
acaaccagactctacgtccttgctggggtccttgagcgcaccacgaagcgtcgttatgcgccagtttgcctcagaggagca
gaagagcatacatctggaagcaaagccaggaaagcggcctatggagctgtgcggcagcgtcagtaggcaattttcaaaata
ttgtaagcctttctgagcatggtattttcatggtattaccaattagcaggaaaataagccattgaatataaaagataaaaatgt
cttgttacaatagagtggggggggctcagcctgccgcttgggcccgggtgatgtcgtacttggccgcccgaactcggttaccg
tccagcccagcgcgaccagctccggcaacgcctcgcgcaccgctggcggcgcttgcgcaggtcgaaccactggcctctga
cggccagacatagccgacaaggatctatggaagccttgcgggtttgcccgggctgatccagccacacagccgctggtgca
gcaggcgggcttccgctgtccagcgcgcacctcgtccatgctgatgcgcacatgctggccgccaccatgacggcctgc
gcgatcaaggggttcaggccacgtacaggcggcctccgctcgtcgtggcgtactccgacagcagccgaaaccctgcc
gcttgcggcattctgggctgatggataccttcaaaggcgtcgtgatgcagctcgtgtgtgcttgagcgcgccaccactatc
gacctctgccccgatttctttgccagcggcctgatgctaccttgaccacatggcattcagcggtagggcctcccacttgggt
tccaggaacagccggagctgccgtccgcttgggttgggttccggccaagcactaggccattaggccagccatggccac
cagcccttgaggatgcgcagatcatcagcggcagcggctccgggcccgtgaactcgtccgcttgcgctgcccgtagtc
acgtcacgtccagcttgcgcttgcgctcggccttggggcacggaacaggccgggggcccagacagtgccggggtc
gtggcgacgtggctgaggctgtgcttcttagccttaccacggggcacccttgccttgcgctcctcagcagcggc
gggcttgagcaccgccgctcatgccgctgaaccaccgatcagcgaacggtgcgcatagttggccttgcacaccgaagc
ggacgaagaaccggcgtggtcgtcgtccacccccattcctcggcctcggcgctggctcatgctcagaggtaggactgccag

cggatgttatcgaccagtaccgagctgccccggctggcctgctgctggctgcctgcgccatcatggccgcgcccttgctggca
tgggtcaggaacacgatagagcaccgggtatcggcggcgatggcctccatgcgaccgatgacctgggcatggggcggctg
gcttttctctcgtatgtggaaccggcgcagcgtgtccagcaccatcaggcggcggcctcggcggcggcgttgaggccgtc
gaaccactccggggccatgatgttgggcaggctgccgatcagcggctggatcagcaggccgtcagccacggcttgccgttct
cggcgtgaggctgcgcccaagggcgtgcaggcggatgaatggcgggtggcgggtcttcggcgggcaggtagatcaccg
ggcgggtgggcagttcgcccactccagcagatccggcccgcctgcaatctgtgcggccagttgcaggggccagatggattha
ccggcaccaccgggacaccagcgcggcaccgtaccggccaccatgttgggcaaacgtagtccagcgggtggcggcgt
gctgcgaacgcctcagaatattgataggcttatggtagccattgattgcctcctttgcaggcagttgggtgtaggcgctggc
ggggctactacccccgcctgcggcctctgagttctccaggcactcgcgcagcgcctctattcgtcgtcggctcagccagaa
cttgcgtgacgcatcccttggccttcatgcgtcggcatatcgcgttggcgtacagcgtcagggtggccagcaggtcggc
ggtctgcttgccttttggctttcatatcagtcaccgagaaacttgccggggcgaaggcttgccttcggaacaaggacaa
ggtgcagccgtcaaggtaaggctggccatcagcgcactgaaaagcggccagcctcggccttgtttgacgtataaccaagc
caccgggcaaccaatagcccttgcacttttgatcaggtagaccgacctgaagcgtttttcgtattccataaaacccctct
gtgcgtgagtactcatagtataacaggcgtgagtaccaacgcaagcactacatgctgaaatctgcccgcctgtccatgcct
cgctggcggggtgccgggtgccagctcggcccgcgaagctggacgctgggcagacctgacctgtgacgggtg
cgctcgtatgtaaccgcttctggtggcgggcttgcgtctgccagcgcgtggctggcctcggccatggccttggcatttctc
gcactgcggccccggctggccagcttctgcggcgataaagtcgcacttgcgtgaggtcatcaccgaagcgttgaccagccc
ggccatctcgtcgggtactcgtccagcggcgtgcggcgggtggcgggtaagctgccgtcgggcagttcagggctggccagc
ctgcgggccttctcgtcgtccgctgggctgctgatctgctggccagcctgctgcaccagcggcggccagcgggtggcgg
cttgccttggattcacgcagcagcaccacggctgataaccggcgcgggtggtgtgcttgccttgcgggtgggaagcccgc
caagcggccatagtgccggctgtcggcgtggcgggctggcgtcgtactcgtggccagcgtccgggcaatctgccccga
agttaccgcctgcggcgtcggccacctgacctgcctgatagttcttcgggctggttccactaccagggcaggtcccgg
ccctcggcttcatgtcatccaggtcaaacctcgtgaggtcgtccaccagcaccagacctgcccgtcctgctcggcgggctg
atatacacgtcattgccctgggattcatccgcttgagccatggcgtgttctggagcacttcggcggctgaccattcccgttcat
catctggcgggtggtggcgtccctgacgccgatcgaagcgtcacagccatggccttgagctgtcggcctatggcctgca
aagtcctgtcgttcttcatcgggcccaccaagcgcagccagatcgagccgtcctcggttgtcagtgccgtcaggtcagcaaga
gcaacgatgcgatcagcagcaccaccgtaggcatcatggaagccagcatcacggttagccatagcttccagtgccacccccgc
gacgcgtcggggcgtctgcgcggcgtgctcacctcggcggctacctccgcaactcttggccagctccaccatgccgc
ccctgtctggcgtgggcttccagccactccgccctgcgcctcgtggcctgctgggtctggctcatgacctgccgggctt
gtcggccagtgctccatgctctggccagcgggtcagctcgtccgctaactcgttgatgcctctggatttctcactctgtcga
ttcgcttcatggtctattgcctcccgtattctgtaagtcgatgatctggcgttggcgggtgcgatgttcaggggccacgtcgc
ccggtcgggtcggatgccccggccttccatctccaccagttcggccccagggtgaacaccgggcagggcgtcgtatgcctgcg
cctcaagtgttctgtggtcaatgcgggcgtcgtggccagcccgtcctaatgcccgggtggcatggctggccatgcctcgcggg

tctgctcaagccatgccttgggcttgagcgcttcggcttctgtgcccccccttctccgggcttgcggtgtaccgcttgaac
cactgagcggcgggcccgcctgatgccgtcattgatccgctcggagatcatcaggtggcagtgccgggttctgccgccaccggc
atggatggccagcgatacggcagggcgtcggcaccggcaggtgctggggcgaactcggacgccagcgccttctgctggctg
agggtcagctcgaccggcagggcacaattcgacctcctgaacagccgccattggcgcgttcatacaggtcggcagcatcca
gtagtcggcgggcccgcctcgacgaactccggcatgtgcccgattcggcgtgcaagacttcatccatgtcgcgggcatacttgc
cttcgcgctggatgtagtcggccttggccctggccgattggcccccacctgctgcccgttttcgccgaaggtgataaatcg
ccatgctgcctcgtgtgcttttgccttccgctccatgcaatggccctcggagagcgcaccgccgaaggggtggccgttaggc
cagtttctgaagagaacccgtaagtgcgcctccccacaaagtagggctgggattgccgcgctgtgcctccatgatagcc
tacgagacagcacattaacaatgggggtgtaagatggtaaggggagcaacaaggcggcggatcggctggccaagctcgaa
gaacaacgagcgcgaatcaatgccgaaattcagcgggtgcgggcaagggaaacagcagcaagagcgaagaacgaaacaag
gcgcaaggtgctgggtggggccatgatttggccaaggtgaacagcagcagtgccggaggatcggctcatggcggcaat
ggatgctacctgaacgcgaccacgaccgccttctcggctgctgccccacgccagaaggatgagccgggctgaatgatc
gaccgagacaggccctgcggggctgcacacgcgccccacccttcgggtagggggaaaggccgctaaggcggctaaaagc
gctccagcgtatttctcgggggttgggtggtgggttagcgggcttgcgcccttccccctgccgcgagcgggtggggcggt
gtgtagcctagcgcagcgaatagaccagctatccggccttggccgggcatattgggcaagggcagcagcgcgccacaagg
gcgctgataaccgcgctagtggattattcttagataatcatggatggattttccaacccccgccagccccgccctgctgg
gttgcaggttggggcgctgacagtattgcaggggtcgtgacagttattgcagggggcgctgacagttattgcaggggttc
gtgacagttagtagggagtgacgggactggctggcaatgtctagcaacggcaggcatttcggctgagggtaaaagaacttt
ccgctaagcgatagactgtatgtaaacacagtattgcaaggacgcggaacatgcctcatgtggcggccaggacggccagccg
ggatcgggatactggctgttaccagagccaccgacccgagcaaaccttctctatcagatcgttgacgagtattaccggcatt
cgctgcgcttatggcagagcagggaaaggaattgccgggctatgtgcaacgggaattgaagaatttccaatgcggggcggc
tggagcatggctttctacgggttcgctgcgagcttgcacgccgagcacctggtcgttccagctgtaagcgtcgcggttctg
cccgagctgtggggcgccggcggatggccgaaagtgcgccttgcgtggtgatgaagtactgcctgaacaacctatgcgtcagt
gggtgttagcttcccgttcagctgcgttctctgttggggctgttgcgggaagggcggaatcctacgctaaggcttggcc
agcgatattctcgggtgagattgatgttccaggggataggagaagtcgcttgatctagtagtgcgtctgtgcacctgctt
gatcgcggccgccccttaggcggccgaagcttggcactggcgtcgtttacaacgctgactgggaaaacctggcgttac
ccaacttaatcgcttgcagcacatcccccttcgccagctggcgtaatagcgaagaggcccgaccgatcgccttccaaca
gttgcgtagcctgaatggcgaatggcgcctgatgcggtatttctccttacgcatctgtgcggtatttcacaccgcatagatccgg
tacgctgtaaggccgttctgacagagtaaaattcttaggggaactttcaccattatggaaaatggttaagaaggtattgactt
aaactccatcaaatggtcaggtcattgagtggtttttattgttatttttttttttagagaaaatcctccaatatcaattaggg
attcgtagttcatgatttctgttatacctaacttttgtgtggtgcctcctcctgtcaatattaatgtaaaagtgcaattctcttc
cttatcacgttagccattagatcaattgcttacctgtattccttagctatcctccttttctccttcttgataaatgtatgtagatt
gcgttctacccatgaacatattccatttgaattcgtgtcgttctattatgaattcattataaagttatgtacaatatca

taaaaagagaatcttttaagcaaggatcttcttaactcttcggcgacagcatcaccgacttcgggtgactgttgaaccacc
taatcaccagttctgatacctgcatccaaaaccttttaactgcatcttcaatggccttaccttcttcaggcaagttcaatgacaat
ttcaacatcattgcagcagacaagatagtgccgatagggtcaaccttattcttgcaaatccgggagcagaaccgtggcatggt
tcgtacaaacaaatgcgggttcttctgctggcaagaggccaaggacgcagatggcaacaaaccaaggaacctggataac
gtaaggcttcatcgagatgatatacacaacatgttgctggtgattataataaccatttaggtgggttgggttcttaactaggatc
atggcggcagaatcaatcaattgatgtgaaccttcaatgtagggaattcgttcttgatggttctccacagttttctccataatc
ttgaaggccaaaacattagctttatccaaggtccaaataggcaatggtggctcatgtttagggccatgaaagcggccattct
tgtattctttgacttctggaacgggtgattgttactatccaagcgcacaccatcaccatcgtcttcttcttcttaccaaagtaa
atacctcccactaattctctgacaacaacgaagtcagtacctttagcaaatgtggcttgattggagataagtctaaaagagagtc
ggatgcaagttacatggcttcaagttggcgtacaattgaagttctttacggatttttagtaaacctgttcagggttaacactacc
ggtaccccattttggaccacccacagcacctaacaaaacggcatcaaccttctggaggcttccagtcctcatctggaagtgg
gacacctgtagcatcgatagcagcaccaccaattaaatgattttcgaatcgaacttgacattggaacgaacatcagaatagct
ttaagaaccttaatggcttcggctgtgatttctgaccaacgtggtcactggcaaacgcagatcttcttaggaacaaacattag
aatggatatacctgaaatataatataatgtgctgaaatgtaaaaggtagaagaaagttagaagtaagacgattgctaaccacct
attggaaaaacaataggtccttaataatattgtcaactcaagtattgtgatgcaagcatttagtcatgaacgcttctctattcta
tatgaaaagccggttccggcctctcaccttcttcttctcccaattttcagttgaaaaggtatatgcgtcaggcgacctctgaa
attaacaaaaattccagtcacgaatttgattctgtgcgatagcggcctgtgttctcgttatgttgaggaaaaataatgg
ttgctaagagattcgaactctgcatcttacgatacctgagattccacagttaacgaagcatctgtgcttattttgtagaacia
aatgcaacgcgagagcgctaattttcaacaaagaatctgagctgcattttacagaacagaaatgcaacgcgaaagcgcta
ttttaccaacgaagaatctgtgcttattttgtaaaacaaaatgcaacgcgagagcgctaattttcaacaaagaatctgagc
tgcattttacagaacagaaatgcaacgcgagagcgctattttaccaacaaagaatctatacttctttttgttctacaaaatgca
tcccgagagcgctatttttaacaaagcatcttagattactttttctccttgtgctctataatgcagtctcttgataactttt
gcactgtaggtccgttaaggttagaagaaggctactttggtgtctattttcttccataaaaaagcctgactccacttcccgcgt
ttactgattactagcgaagctgcgggtgcatttttaagataaaggcatccccgattatattctataaccgatgtggattgcgcata
ctttgtgaacagaaagtgatagcgttgatgattcttattggtcagaaaattatgaacggttcttctattttgtctctataactacg
tataggaaatgtttacattttcgtattgtttcattactctatgaatagttcttactacaattttttgtctaaagagtaatactaga
gataaacataaaaaatgtagaggtcaggttagatgcaagttcaaggagcgaaggtggatgggttaggttatatagggatata
gcacagagatatagcaagagatactttgagcaatgtttgtggaagcggattcgaatatttttagtagctcgttacagtccg
gtgcgtttttggtttttgaaagtgcgtcttcagagcgcttttggttttcaaaagcgtctgaagttctatactttctagtaggtgc
actctcagtacaatctgctctgatgcccatagttaagccagccccgacaccgccaacaccgctgacgcgcctgacgggct
tgtctgctcccggcatccgcttacagacaagctgtgaccgtctccgggagctgcatgtgtcagaggttttaccgtcatcaccga
aacgcgcgagacgaaagggcctcgtgatacgcctattttataggttaatgtcatgataataatggtttcttagacgtcaggtgg
cactttcggggaaatgtgcgcggaaccctattgtttattttctaaatacattcaaatatgatccgctcatgagacaataacc

tgataaatgcttcaataatattgaaaaaggaagagtatgagtattcaacatttccgtgtcgccttattccctttttgcggcatttt
gccttctgttttggctcaccagaaacgctgggtaaagtaaagatgctgaagatcagttgggtgcacgagtggttacatcga
actggatctcaacagcggtaagatccttgagagtttgcggcgaagaacgtttccaatgatgagcacttttaagttctgctat
gtggcgcgggtattatcccgtattgacgccgggcaagagcaactcggtcgccatacactattctcagaatgacttggtgagt
actcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgcataacatgagtgataaca
ctgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgctttttgcacaacatgggggatcatgtaactc
gccttgatcgttgggaaccggagctgaatgaagccatacacaacgacgagcgtgacaccacgatgcctgtagcaatggcaac
aacgttgcgcaactattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggcggataaagtt
gcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatctggagccggtgagcgtgggtctcgcggt
atcattgcagcactggggccagatggtaagccctccgtatcgtatgttctacacgacggggagttaggcaactatggatgaa
cgaaatagacagatcgctgagataggtcctcactgattaagcattggtaactgtcagaccaagtttactcatatatactttagat
tgatttaaaacttcatttttaattaaaaggatctaggtgaagatccttttgataatctcatgacaaaatcccttaacgtgagttt
cgttccactgagcgtcagacccctgaaaaagatcaaaggatcttcttgagatcctttttctgcgctaatctgctgcttgcaa
acaaaaaaaccaccgctaccagcgggtggtttgttccggatcaagagctaccaactcttttccgaaggtaactggcttcagca
gagcgcagatacacaatactgtccttctagtgtagccgtagttaggccaccactcaagaactctgtagcaccgcctacatacct
cgctctgctaactctgttaccagtggtgctgccagtggcgataagtcgtgtcttaccgggttgactcaagacgatagttaccg
gataaggcgcagcggctcgggctgaacgggggggtcgtgcacacagcccagcttgagcgaacgacctacaccgaactgaga
tacctacagcgtgagcattgagaaagcggcagcttcccgaaggagaaaggcggacaggtatccggtaagcggcagggctc
ggaacaggagagcgcacgaggagcttccaggggaaacgcctggtatctttatagtcctgtcgggttccggcactctgactt
gagcgtcgattttgtgatgctcgtcagggggcgagcctatggaaaacggcagcaacggccttttacggttctggcc
tttctgctgcttttctcacatgttcttctcgttatcccctgattctgtggataaccgtattaccgctttgagtgagctgatac
cgctcggcagccgaacgaccgagcgcagcagtcagtgagcaggaagcggaaagagcggccaatacgcacaaccgctc
tccccgcggttggccgattcattaatccagctggcacgacaggttcccgactggaaaagcgggacgtgagcgaacgcaatt
aatgtgagttacctcactcattagaccacccaggctttacactttatgcttccggctcgtatgttgtgtggaattgtgagcggataa
caatttcacacaggaacagctatgacctgattacgaattcgagctcggtagcc