Magical Word

Input 1

2

375

AvfmaLgLRpQadLyThsxVzkUqbFOdxfbLGdpBWOwmAnflENlYFbdhNHerHVtZkaPLgMtNQovVHpwGfHJdXXWAhYrhwXKPxtnpxCIsaXVAkcxTpVprFNeOVcnSEsgIvfqXPRSUASSDCvAGrFJCDbzGLFhrMYWALElChmurLrEeQttIWctyhQXzZUVAYuCIZecBJbXMxlMHFbZxJRTSZJmZAwCggGabVsovqBrdmmbCTaIHDfUunLFntfGzodKqoAKwCassKMDybethRaQgegsOawfNCNrIAkECEKpbwElhvWtlZBEZqJQpEkzpiSjrqZZIHbszUxwuWreXkxFKxSAiKoemIqETGVxcCjweKhbyXxhVKCbNTQBKgHD

20

AWGrOwUcFWnghtAyvxSb

Output 1

CqemaIgISqOaeIqSgqqSqkSqaGOeqeaIGeqCYOqmCmekCOkYGaegOGeqGSqYkaOIgOqOOmqSGqqGeGIeYYYCgYqgqYIOqqmqqCIqaYSCkaqSqSqqGOeOSamSCqgIqeqYOSSSCSSCCqCGqGICCaqGIGgqOYYCICkCgmqqIqCeOqqIYaqqgOYqYSSCYqCIYeaCIaYOqkOGGaYqISSSYImYCqCggGaaSqmqqCqemmaCSaIGCeSqmIGmqeGqmeIqmCIqCaqqIOCqaeqgSaOgegqOaqeOCOqICkCCCIqaqCkgqYqkYCCYqIOqCkqqgSkqqYYIGaqqSqqqYqeYkqGIqSCgImemIqCSGSqaCkqeIgaqYqgSICaOSOCIgGC

CYGqOqSaGYmggqCqqqSa

Input 2

3

159

loRpTnddJTSOxhUXCLcIFEpTHyjqtKULiSsAlngwRlrolZETgmLwvQnZArcpklcgunqsMwOztwVLKyvLGlugYOziWnCFliNByqtTmzuNuCtsGeFpUWTogJxmdtBhEOUidKiQPEEfqGvKgAmzrgqQUCWYgikboAe

265

KIUvAjkfmQhDjTVaqAwxTIEYGnWgbNnhIZkmpsALUJHrxiXjJtbkIwXXQqMXSbhovwlyjcNfLQTzhYDoPxFpMrvpqpFUzptDXbRuDUSOeESwpDATDfxkwpJMhQuFsFCIJaxccawXUpbwlZSBQIJdmmqvTVQEGVIcqMFmknYjzyXYnGbOadSitPHbcXLiBlSElYmNNGvnDvfnKWcmaODTBwSwVUBFaUpoRuUQfTPnHdgZetnfpXzKTMvrrJjDBrswAwtOTztbA

278

itFJVRsKAEwTDpaYWHjLZTxhCfQRIIeaAySrvcjSmFEApZTdSwfoCBbDxHeFgACmBGRpxJqRLKPOwKThiBWxDokmDZCwOlCuPpfaLCUMrRKBZbOIgZOJYYsWBovRohQJzfsCCUcLdpwbNWBdYdqgFNnHOhpvbWcdZeakgtzJVqdCkbBRmYbSMFrUQRnnSwSZUlqiGnxjIVyGFWxBogWiikhmwUkDDPicZjAzUSRyOVpishgsbzsllUlbpFGGbTMkQwnumjyYGwrfFaLOarbRte

Output 2

kmSqSmeeISSOqgSYCIaIGCqSGqkqqISIgSqCkmgqSkqmkYCSgmIqqOmYCqaqkkagqmqqOqOqqqSIIqqIGkqgYOqgYmCGkgOCqqqSmqqOqCqqGeGqSYSmgIqmeqCgCOSgeIgOOCCeqGqIgCmqqgqOSCYYggkamCe

IISqCkkemOgCkSSaqCqqSICYGmYgaOmgIYkmqqCISIGqqgYkIqakIqYYOqOYSagmqqkqkaOeIOSqgYCmOqGqOqqqqqGSqqqCYaSqCSSOeCSqqCCSCeqkqqIOgOqGqGCIIaqaaaqYSqaqkYSCOIIemmqqSSOCGSIaqOGmkmYkqqYYmGaOaeSgqOGaaYIgCkSCkYmOOGqmCqemIYamaOCSCqSqSSCGaSqmSqSOeSOmGegYeqmeqYqISOqqqIkCCqqqCqqOSqqaC

gqGISSqICCqSCqaYYGkIYSqgCeOSIIeaCqSqqakSmGCCqYSeSqemCCaCqGeGgCCmCGSqqIqSIIOOqISggCYqCmkmCYCqOkCqOqeaICSOqSICYaOIgYOIYYqYCmqSmgOIqeqCCSaIeqqaOYCeYeqgGOmGOgqqaYaeYeakgqqISqeCkaCSmYaSOGqSOSmmSqSYSkqgGmqkISqGGYqCmgYggkgmqSkCCOgaYkCqSSSqOSqgqggqaqqkkSkaqGGGaSOkOqmqmkqYGqqeGaIOaqaSqe

Input 3

10

229

uTkxYwOdZlyzGtVUSYqZhjWnEFazKOOTDuWoNLRqinqmpSDfZHdcREUjYFiGEksppnDHzrHOBtsXSBWOczVRTxlxdVjDgoJUMEfTUmzpWOrXnuMHRIiqFhDFEJMLzUtOsfQQhhXmJbHgyHHbcWOQPEgnQxPmHTtNmiqhkZMvgdRWnYrReBlIPvjQPPLyGUNSGfiICKTBtnwHeccGjdBqLqRtOXJUiHRaFPyce

322

bGxPVNuxkZQKIHbIZVWZpmBpshkDaIosjZHtbMfHrmsHitrrGOmXENIhkuFklSFhvlacrdnmqkVRTYuWnsPzdTBEeDHpUmoKfwmyUrgINuCWgIAZLZkChbKkJZIRMxZFoZLiwRqQKvDzbJXMfikuSOlpUwtdvXpjljUmzmroCCkwdQRUgcOYKgNAxwoBLrUPtvOnaBpypIDManeMydmoOgTJILdveEqNwtQxioVoTqHxSBSEJUJpnNKlCcwhnTUoKOZYphJTWjQSqTXqbGNSZYNpdgdkotTGPacLkzwLJGwVsJJmSpBdvgfMOWXlLxTLur

365

eMzcThGLZavSoaxOJLwHMBlRqffCOygUiCnrDFRSSzAimJjqZlbMnHlYIKExtEzQicrxZjezPCNIBmoSMdSgnfLmqurpJFbqZQxksUUnicPBVJKOBegWzlkpsWfqUwWXlaxVjOvLdOTlLXmAjZVfvuzgfxxWaoqqkkEpUrBymEYGhNxSGMXYoguRSgqLRVOexuVNzlnFvLZMUITJTkRhLwQFChXzjsiuorcTQiunGursbgAaqdlDoqSZaXgRwNNtMXhdHhqBZGLlfjwcjaBVvGzxiIzIixwXLmgHtTkIHshjBgOMudQjFeldITmjlusbwjhaMxsrZNoSiyVxBpNBUHcENBdfXNOHUiohXoUvfTRuj

388

WUfLfyyXSKpipbIQaMXtEsWnBOztDxkBpsfvmdFpQyfunbtcSQxGmjSnPvXNgFIbNgLWaKTBhlFHbMQAhgzucObNvWVEwPvpHlxbSRCzhwEdmvIyAWkgilSPQdRhjhCRjpowihnyxfqPtrbqzfEKeskikHUnJdGGpUmgQUZfCjSsdCiFSWImQMVRAJWvQxUUzSjHfAhtxtIyNKBxgnTixUGFURLasoafbcPRNweWRgxWMrXjxKLvMMRhpXvdDwTixoUHunMIkWkVfiimIrHakuhauajZSJMajCTsZfEAsPCruRAiBvnTqeTnHnnJXaCmBxDaRhMAndrJeOYiuDFNWvSbMEeTdhFkRVlVCCyfZsARBztCbZWFdTxxiiQNCtulXfMN

22

BRLXRewjQULBgycRATXhsY

134

CCLcXInEuLFDyQGnZKPoSwIjJWNBNPzHhwcJYhUpdPwKxvIYZfvrlAEFUFWEoSQXHlhoBNOoGprpxGJdqgukbsyKnkyNSlvyZqWBUknnPOqoVChdnyjmQYKiewbjtPCgLsDZPZ

43

CChpdJXNdNgPXMmWLvcrSBSecSFSXtSsuRkpILYhucj

144

uYUzpyXetqxSXnuUvrwaHSGUZjiJABisQGXafwPVQFXZMiWQpxkIEoYSsDNAuXojwPkrttJJaXdNlZvaXlNTnSeevrjURTlNJTgGYzegRTUstqlyWQjrHrKPcGQSnlaHAfQSAEjDeeppEiDt

260

mNUCAoXQiYXIojGYuArEMnbmmHKmGkXpSYQoCfWyKjtPTnjlvZJsvwxLLDhEDzHUYHrYIIwMsOnJIoozVyXoAMsrSjCRINvFTvxXUoKvxCspWVqCmLbgXmDXlzszNKvRYzSolVWHzNLDwxsrlqoqtDovpUdVprNWnznQWpUAwCWBDrJMjnuvhHtLvoUkkYPJYKXokpXSjlrRMNxRoMIUzHZBMXNpTxobEDzIZyknsmJBhJMjfrkicpmMQjvmxOhcZrOV

282

bSxneXSCSMyvlMUCntAcMbTvUnmSZqNrQYQjCtGCtruoOwASWbvLRQCoKGayBKZGNtkSoRFUoLLtxcXdvLSZnYtLsKvDqxNowPaoByolyzPCMrMhLONuMXxQQYiAVZnyWtwHiuMVXQaGIKnzpoCtCUwDIWRTTVHtXlhHVVZqgXOzjdkbKuomBqBMfewXdAkWjyYXWOtgDaFvhbzsHZfldetSpreQcCHDVtaZyNnZVUyDppjoipVVEFExTHcBQoXrQLYVaCcAZDAVFnOyhgqUftjLMT

Output 3

qSkqYqOeYkqqGqSSSYqYgkYmCGaqIOOSCqYmOISqgmqmqSCeYGeaSCSkYGgGCkqqqmCGqqGOCqqYSCYOaqSSSqkqeSkCgmISOCeSSmqqYOqYmqOGSIgqGgCGCIOIqSqOqeOOggYmIaGgqGGaaYOOOCgmOqOmGSqOmgqgkYOqgeSYmYqSeCkIOqkOOOIqGSOSGegICISCqmqGeaaGkeCqIqSqOYISgGSaGOqae

aGqOSOqqkYOIIGaIYSYYqmCqqgkCaImqkYGqaOeGqmqGgqqqGOmYCOIgkqGkkSGgqkaaqemmqkSSSYqYmqOqeSCCeCGqSmmIeqmqSqgIOqCYgICYIYkCgaIkIYISOqYGmYIgqSqOIqCqaIYOegkqSOkqSqqeqYqkkkSmqmqmCCkqeOSSgaOYIgOCqqmCIqSOqqOmaCqqqICOameOqemmOgSIIIeqeCqOqqOqgmSmSqGqSCSCISIqmOIkCaqgmSSmIOYYqgISYkOSqSYqaGOSYYOqegekmqSGOaaIkqqIIGqSqIImSqCeqgeOOYYkIqSIqq

eOqaSgGIYaqSmaqOIIqGOCkSqeeCOqgSgCmqCGSSSqCgmIkqYkaOmGkYIICqqCqOgaqqYkeqOCOICmmSOeSgmeImqqqqIGaqYOqkqSSmgaOCSIIOCegYqkkqqYeqSqYYkaqSkOqIeOSkIYmCkYSeqqqgeqqYamqqkkCqSqCqmCYGgOqSGOYYmgqSSgqISSOeqqSOqkmGqIYOSISISkSgIqOGCgYqkqgqmqaSOgqmGqqqagCaqekCmqSYaYgSqOOqOYgeGgqCYGIkekqakaCSqGqqgIqIgqqYImgGqSkIGqgkCgOOqeOkGekeISmkkqqaqkgaOqqqYOmSgqSqCqOCSGaCOCeeYOOGSgmgYmSqeSSqk

YSeIeqqYSIqgqaIOaOYqCqYmCOqqCqkCqqeqmeGqOqeqmaqaSOqGmkSmOqYOgGIaOgIYaISCgkGGaOOCggqqaOaOqYSCqOqqGkqaSSCqgqCemqIqCYkggkSOOeSgkgCSkqmqggmqqeqOqqaqqeCIeqkgkGSmIeGGqSmgOSYeCkSqeCgGSYImOOSSCIYqOqSSqSkGeCgqqqIqOICqgmSgqSGGSSIaqmaeaaOSOqeYSgqYOqYkqIIqOOSgqYqeCqSgqmSGqmOIkYkSeggmIqGakqgaqakYSIOakCSqYeCCqOCqqSCgCqmSqeSmGmmIYaCmCqCaSgOCmeqIeOYgqCGOYqSaOCeSegGkSSkSCCqeYqCSCqqCaYYGeSqqggOOCqqkYeOO

CSIYSeqkOSICgqaSCSYgqY

CCIaYImCqIGCqOGmYIOmSqIkIYOCOOqGgqaIYgSqeOqIqqIYYeqqkCCGSGYCmSOYGkgmCOOmGqqqqGIeqgqkaqqImkqOSkqqYqYCSkmmOOqmSCgemqkmOYIgeqakqOCgIqCYOY

CCgqeIYOeOgOYOmYIqaqSCSeaSGSYqSqqSkqIIYgqak

qYSqqqYeqqqSYmqSqqqaGSGSYkgICCgqOGYaeqOSOGYYOgYOqqkICmYSqCOCqYmkqOkqqqIIaYeOkYqaYkOSmSeeqqkSSSkOISgGYqegSSSqqqkqYOkqGqIOaGOSmkaGCeOSCCkCeeqqCgCq

mOSCCmYOgYYImkGYqCqCOmammGImGkYqSYOmCeYqIkqOSmkkqYIqqqqIICgCCqGSYGqYIIqOqOmIImmqSqYmCOqqSkCSIOqGSqqYSmIqqCqqYSqCmIagYmCYkqqqOIqSYqSmkSYGqOICqqqqkqmqqCmqqSeSqqOYmqmOYqSCqCYCCqIOkmqqgGqIqmSkkYOIYIYmkqYSkkqSOOqSmOISqGYCOYOqSqmaCCqIYqkmqmICgIOkeqkgaqmOOkqmqOgaYqOS

aSqmeYSCSOqqkOSCmqCaOaSqSmmSYqOqOYOkCqGCqqqmOqCSYaqISOCmIGaqCIYGOqkSmSGSmIIqqaYeqISYmYqIqIqCqqOmqOamCqmkqqOCOqOgIOOqOYqOOYgCSYmqYqqGgqOSYOaGIImqqmCqCSqCIYSSSSGqYkgGSSYqgYOqkekaIqmmCqCOeeqYeCkYkqYYYOqgCaGqgaqqGYekeeqSqqeOaCGCSqaYqOmYSSqCqqkmgqSSCGCqSGaCOmYqOIYSaCaCYCCSGmOqggqSeqkIOS

Input 4

80

251

xNNephEJVuPtroBNmSWPAcbSCmzAihUueNnnfdkWHxuFIFFvyAfzbTWrnkSrNVVyWQipOmgBcKkyOZSflKLVpvXFPqjigdhXLETrWJMDsuKhbRSDIFAlPKqwTCBQgCKBOukHaVQboKmqbwlyCbXgsOULfyeqKpEkTzPQXlDGFtnSYymHBmoMnIyXftXXNEjfYuUlbuJNRrUptfaoNXdCNDQRRHCEFzPzCIxEVxUWqQTZWdCLIPKNOuBnpuU

410

wKCXdQsWcTEmxFAmNcrmdNtNXyxAsvvncFzZzDTNnRKlfxfMJvejwglYNAlFWjWIaBXHxlCtEUXTBYzuagHqAvIOdUZgpvOnQriFnxhEtRnamESisTsCdTfVOdDbPEoRCkgswiXHHMtPrQTrUCuHdVRTWsJUHQAdCFLPvLmpIvSDYLbaJRJyUafROUBpgflGAKdTwygqSUnTgMgPumLqVLGBsUCEVFcCOQhGNrCcOuyQELkOhgVDueeHjeDMMtYNQoJxePytHsADneGJNmdzyikpkxaFofYXgujBrjDSLStkFxqxesbvyPLQepyomyhKgSvJyYRethlOwoxTLgSeEQUOEqCQOqKMBhXoNDHvbCRGUZmDTtRrCofptnRkgwEHTxZBkqgSCGmTOkajGthSNZMzZz

425

yxsfDoGFVlDAhUsKqVjCXiICvIAvsYfTiaCUvBCXdFmcmUYTycKIoFRqjlbnMxfZcyPjgoFbFLwYWuFkROXcQSPDsOPHFRTXaJRipICvBWxMNDCFyPUtDMeIcfMaEMUeoskOdfxxEmYGiCAvQwMDyxKctOigNnNpPsvFdmgHgtAuTnqEQwIwdjSfUHVqKxxVYaufVoBhcSdwDCHedTUyvdmChLIpJZKJEOYhLCIPawhWQymABAXatqwPDnCVqlQgXcXCZpEcbSVxiWmiolgydJANIaUrlrGbuuelFGJAfQKIEBLeCOoXCacRmPuAgRMqWQEloUmvscFwfGICdVSgRmnfjwsNfsZdgzJpfjkDgSBYNOWNHwfnbDsSmGrGgyiPwECFtgoyDNtyJlPLUTIFTQqthwUgScdcxvwGLViFs

485

wTAQrwsilWxgLPbOLdGJFiLNbstDghLcgNeexrRIHsfQZyZmaLNxwrIFhRSCQKIuYPtEWZSuiyLFMucjULdODYKWDOMyoEwTMgAAPYFFUHfbzXjauiHQtfLUkFPgldrrYjoATdTvGFNbDYMNxeXPVuOhxEpSGZInFMRSKLxYRqUWpQbWncYQmZZCVrFazKaiWgvKHIGBUYBDtboEPcPNqWQYjAcOVfKuTOKNlUagHwcKFaGBMIAFUKqzaOYircEZsbeeJPHliLSLLYGdwxaPKZaLNaftiXbTaeulWGmLLUuyJmNHrFxcdMNxXMimxGhsjqKCEhPodisAXIudxQLoABSClUIfbypNeOHRtDtNZhexryQKpwkSSbGduKZOQMRvmaGhJNgbZzuFJhKgTVQcoRXHXXQSnkfQmZGUyDKTtNvboLIScsqMbCrgExFoldLdFxdksGLuzuVzephAeAOzWbZvhIzfbXbGevUCW

368

GtljLcCIDeCSwEAarHMOwAItShbVdAwxLgNKuGvwIAnZELjSHCjRufwryNfdjYDIyxGqqUWlhxMseCMDZdAigzIhYzqprvHjfVXeNBpezwLaHOdkwobkSZQEEWdUsCThvsWlxEprkgZTNpfrywqsxOMmDkNMifbNMEHHmfmAaUvfIMiVJxKkObmhghvvvYoItAcNedfDIItKHgplKzQckDRDLMErtEoKgmmGpEZvJVmxDThpvOEABGSnySHvkxFMaKXlWoNJAelbIdQupSoEcRIKaflLjblTwsrdEUXIWezwzRhTlSWOSFpNugRDzRzVxkZbopYzHfwEpimhrlZEzDhDwYUNeNiZsbiwMGCPgLpqAOhb

374

yimNtgFePUfQNPBvXssUEopQjWuByPrvyHEPPRfqSTlSCruZfaowpJTuaWZKAsFYIuuyXlFZGdztRZrULARZcqLzOZpLtFkzRRKSToUkpXvsHpHQpCWiAjWCktyaLLGoUMInnjcLxqcVRBhnkAgfktkSyPKEFlZNdrrfDySNZRSAcpmAtrfiecPcMBIfbkVklNbvlKuYrKHLMszbpyHXxGQGcJibAUBFDGKulkTKUEVhENjXqjEwidIStPaqmpOWxVKiUdRxLSpxakpTgZlxcKQXRHhcgiYzEiIYWBxJyYwWeGKbzBTxycNsusfDwrGJqRPzJxfNGoUcHdBxoyKyuaqvHKFJtewUrWmsJhtmRUAsEOVGLURoup

276

mPIvniYIHCUWfxuZqNUQIxDRpVHIUjfZReqFWkMFhiNskAPtFSQYytwvzDnuqjcNxqQSiDEAQhAXtKkejJpEDfvlRaTawzmImIQeEMFzuMNvnIIOMpgjYqGchvAiobRmeLXztEGVYyDBiKqrgYoCcpMLjtEJAYFaNUMxkAaYAhKbmNPjgfDGYPyuOEMcesUwoUHkgbcsAtSTOLMTtvjzqaCXfWNpnbPjADslYyvzXexIOWDdLuKFZeLGkGRbPREHdauqPTPKwywrSczzGcpt

452

ChXUPjPuXqCyPWKKoZQKbvloYVyWLjSQrcZKpJKxGPgwIUqOldVlfdgqoUuTxpSdMzJqBZgccPkBmmGDvTzjsPQRDXJslojvSCEYTMXdBsOdfEusJPHJLFSjugSuRHgMfFMygbQOTDLkkWSioKJgAkrkpmTTLmlUjdWampJxfvPrpVjHpgVXRvrEZAQDlXttbdaLslMupZSJTXatxTLBjThDZmLuWJYonJIbcbvhRTskhUwyWIQsrQhFrYHSBzEuQoqFPaMWMReIuUenNgQAxnJEKKeTEcCFHdntRoWurOieEuFrladpBuqiFxGKSwhDZZfNcOmAmPppezjVANJmWlmnZeLkGXNGESAtoCYVvNmRPDCmRgPjsyZZaqQsAwzXsHdMRmUnKOCdBZezDlkRWIxNbZQbpGRUlhvsmTRYssBCupkIIKesDBbBWJDUmVOMjPOb

374

QtlasCKQAaaCrfrGLfxKzPOvobBLRFvbiffVCAExFjvUHJXOENNgYlcvBBntCwUPfSlkjzfGzhpaUDxjsKMUESysGplAbjyxOpkHbUrOYxDjuHQOCBjSiMhcBqNDVwpJlNSCuDlvhvVBVXIYGhVCIILufWepAnceLvoVKqobTbsSvaxAOyJbpuYgmsxtkcQQmwsRaKXDMfaXesXHivkROaAMwqDqbJkpmMxicWOTcFfbBuUvpcAtSxOIulozCdBhGLvwrkgEhxoymuTtEhDsiznKZuuASJABdvPZDfbhakeNsOEvrPeFjMcQBAWQhCXGCLoytuqiguRPHMoWQvGkFgCVhzwDdxTtZfsshaYXwPAnMZsjKXWERu

22

jAxJKPqTzuswZnnNvQjhuC

188

uVGoDlQckwNXEnZVBNeKVJxthYBdqXfAonhcJudwaRNDranNtwheKhDirafbVyxFGSUzfhVfeUAIPtHqRfnSYeveKvwXiLVcCkSKPHhzvBRthtGuGHKBbnUxtscOYsDYzthfpJMGbJtUReeTmyFRIzBTjsKsraakzONhIyUvARMZHlODSdwhxgceIImE

368

woHBtSlALrWNfYQmXTynLPYFMsUCNGQEagircaWtQVZWrqRHcPgnCxSWZHtnloADxyIljWCpAqeOCblojwqlJBwVSTyXMIffPjqnFrHKBiycKLmcCqZSVeNsUuFyzglKGYjQJdhtNpCpDKhPKxAqpTUYfUMPHUYvBMWiKzxWznvTXOgTKZXymoLuIDGJmAIiPWauziYtTmPhgeEhutRxMLewlAmzlrKmAvQIsIPURWhZBvJbcQhAUaevjuEsMuJgEorFgMIXaYaELCdcjKrfHkGdzuHzPxRyxnWZEPgKduEuAbYrLHUdPGorxvGTXrIuDetKgtdApyKuAguFmxXqmdxLYsuexyQaClgSBhwQnNPBLXHr

101

BmGzsBHTXtxDRmlsXXrmacmYsuEBakfeBmExeIlHFqufSGLKzKtEBZSgzHcUPDpRgHetGxkoBNepTXoUAqDDzYUEonwOTKXSkYKhx

315

kzmrmOHypHUiaFSbAnNCPTWxZngFIOCNjgjGtXlQDyKFLMSATdmQtyrqEpwSMjmcgOIfcFXvmcuOuZwnAoRaKLOCNnGvLjlVaLZsCFSemZpHobQiXYjAQcpqucqeTKNNefVGMgmbIOuqrXxLyUDsKTtpoEDJOsnLmorBlOwSHbmCPCgdnBjxhzwxFOAhthYoOEhaJtUdpYkHJCsmOmKsGrEZCDherzedwhyGyDDJefbvStbBnWbaGtBJlpDrAyUaveaaCcxgplwyiWnnFQsWfQMuOpkZQtvDeVPGEPutRJkTUMFLzuAAmdWPSLx

500



451

UkIYrnwxLcNgDRIirShovDegveUgHjCtOxzYFQRrLYBASStWExegawGEQamiZdgORoYeMlbkcejXXJJYAHBoEiqobUIpRxktieEqjUGOImDwFoJyYLIZTkLQFeTERGHYrkAqUeXVNTaLbSRnHYODsYLEausrRVjQQziuDxhbaYHKbONHVayUdfmVuwshupRkxhlOdasnRbhVjSnNZelwFhdIEwkZJqFilHGheyqvZAHwqVOWtPalBldZokSLJnzOnjWniBfyxtTOsyWzybwpTpAsAuLMzvFrnfbfPHgmCaIwlQnGEcRtYsNTuUISXRNYTMUcXZwkjrCjknwIWbSFCcjLhJtHFldFDyOsIHjMEdKgsFADmFjOaxmbhJTJMXWUHZzVfbBxcvkDoYCDlUzJcnWSHdqsQEmHBQipIEzVeVpykLwjHEKKuZvxoOcOdwVvrkV

236

yRqzOBnSfRXwtvAKXGWRihVXvzxpDcgKawazqaiOsthqTQdjduTBeYQjDAbdnnMAhLbJVzjpuiSyORYEgUqFWJzRxyIAkoTzmtsPTrUOLWEjUnFYtuAaATFjMiGZxWKgJuRCYqdykBGFpgxTYvUYxcZIQempksCNxoAJYRBrCunmOqZvnCjUwzopWEMNOunukxEzFKsedtzCyBGJxANrIHEpynBDSgRFtcruAQrzJKPe

170

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78

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395

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471

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296

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491

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104

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88

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94

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208

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84

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425

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144

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459

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455

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233

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70

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352

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353

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141

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30

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412

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269

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410

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383

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255

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68

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440

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444

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238

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244

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25

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460

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499

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221

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22

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178

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360

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128

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104

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53

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312

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43

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434

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188

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40

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398

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134

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228

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140

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288

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463

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468

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318

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104

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409

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425

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26

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288

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385

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Output 4

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Input 5

85

271

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372

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301

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206

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212

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451

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312

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469

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172

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300

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155

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286

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51

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298

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230

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104

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448

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368

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110

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140

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398

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495

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64

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480

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338

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170

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278

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143

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277

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282

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427

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82

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180

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471

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453

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196

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177

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210

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152

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475

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384

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185

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434

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384

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205

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463

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25

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239

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206

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20

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479

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156

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171

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420

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204

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423

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452

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91

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384

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433

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436

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484

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248

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428

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446

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145

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475

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139

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442

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274

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29

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91

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297

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168

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57

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423

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389

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421

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389

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436

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371

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328

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Output 5

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Input 6

90

191

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288

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149

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152

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149

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415

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278

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422

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478

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223

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296

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387

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112

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200

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202

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281

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360

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425

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390

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379

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444

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191

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287

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500



411

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391

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422

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31

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396

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205

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479

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131

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461

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178

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187

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390

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487

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345

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315

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100

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217

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287

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449

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407

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497

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95

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328

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315

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180

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482

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116

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39

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47

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212

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444

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342

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130

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318

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301

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270

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465

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30

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26

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440

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488

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383

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417

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477

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48

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92

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245

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117

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316

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90

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385

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183

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483

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444

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425

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414

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465

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126

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222

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472

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461

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409

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70

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438

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49

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383

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Input 7

92

338

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72

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370

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413

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179

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307

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316

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228

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101

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43

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412

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233

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418

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31

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33

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486

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44

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52

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188

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394

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275

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222

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115

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282

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305

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328

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433

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469

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194

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404

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42

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386

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355

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270

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400

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280

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415

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474

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451

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351

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490

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155

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164

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160

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239

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77

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53

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108

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86

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341

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214

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289

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83

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147

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29

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400

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299

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237

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437

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475

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76

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141

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177

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432

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378

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335

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138

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413

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321

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378

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38

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23

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310

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105

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313

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404

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158

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411

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97

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488

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84

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346

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387

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497

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Output 7

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Input 8

94

428

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85

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362

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235

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281

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318

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80

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284

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474

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134

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288

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266

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313

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441

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270

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49

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487

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196

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317

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383

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339

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105

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379

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68

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229

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92

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247

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232

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339

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48

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87

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443

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92

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430

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197

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307

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295

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436

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380

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299

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71

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175

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332

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487

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50

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102

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489

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434

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485

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153

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240

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226

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27

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428

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258

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209

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398

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357

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35

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362

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145

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312

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278

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371

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365

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298

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320

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211

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323

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57

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237

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414

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390

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163

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82

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436

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500



385

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197

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24

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313

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399

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335

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142

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209

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143

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261

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Output 8

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Input 9

98

22

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298

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447

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21

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52

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102

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152

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203

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105

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131

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395

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161

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113

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213

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232

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297

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46

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376

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137

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61

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119

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92

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46

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334

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230

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473

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112

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406

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278

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231

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225

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171

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290

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276

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443

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235

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300

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362

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460

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439

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388

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321

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330

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211

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159

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349

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77

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254

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169

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434

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408

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327

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206

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201

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98

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148

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472

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311

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105

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60

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34

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487

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201

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312

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456

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362

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450

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380

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334

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495

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130

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458

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69

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418

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240

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28

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363

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161

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219

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193

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315

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167

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61

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182

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336

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159

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356

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320

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74

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320

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124

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385

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441

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230

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90

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Output 9

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100

399

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81

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359

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289

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297

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198

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40

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390

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371

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217

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170

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168

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170

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69

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184

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160

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400

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494

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443

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322

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339

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238

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448

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86

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99

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125

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71

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215

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384

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194

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276

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208

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244

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101

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293

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335

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31

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214

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123

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269

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226

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436

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431

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368

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144

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206

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375

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101

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367

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366

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35

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234

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216

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380

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118

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70

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83

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335

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384

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236

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179

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335

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117

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181

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185

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326

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103

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291

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207

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128

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433

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404

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106

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431

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21

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266

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320

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405

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37

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431

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439

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123

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59

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62

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102

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471

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472

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403

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151

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497

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336

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279

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269

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414

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486

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477

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449

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339

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Output 10

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qCOCqgqSCSYmqqIqqmCYOgmOSqYqYYeqqOIqIeYkmCYgCeqkYYGOqYOqqqqemqSkCgIqYqGYSqYYkCmOqqImeaqCSkmOGqeCSYIOkCmqqYSOkYYIqYGGGISqSOkOeIeImmYaSkCCSeSkaCIIYCemOCgqgqCqIIkIImYGSqSOSGCOYqISOIqgqCOGkeqqqkqYGkGagqqOgSmGGqIeOCkgCqqeeqeeqqOaCYSqIgOqSCgqOqqqCYqYGSIOOOqIqYYaYCqqIkOeeqaIGSkCOmqOISekgCqGqOOSqYgqGCOaYgOOYOaaSOCSgGCCCGmgCCgqSOkCgIeCqkGOYeqgqYI

Input 11

50

20

j4eZamQY0SQgM9cX7dcb

20

rOMNgC0bBUgJnz9RacOL

20

CXNUgE6RwBysojPIM6oG

20

0huYVux8IxT1nH5I0CVn

20

vA3wVvrVF2oeg5gq5Oay

20

jyN2orDTXPOGt6n9eJF3

20

RGtB8xL86aLPLiD8IjCD

20

8PfAV4YPeAgmlGqd5TLv

20

ZfKhk8VR8jVcvNR1wMR6

20

wADt1pvfUc7n35Zy1sLT

20

QPfsHhPBTCloxhVZ21aM

20

3jrqsB3qjsijpuvLqeKP

20

Mn6AolP7TJS8i7bMq9cT

20

jAJYhwJIjsbsuNfbESu2

20

MBYtX0IWlLPrAQAwk91s

20

K02g8uZDzXv0RJRMd8kZ

20

jgFMrewrIXevmBlUMGbC

20

RiwHvqUOleXXWHpC6Js6

20

05R87hHdZBytmRXjImKr

20

hNPzREvUqtZO7v28Ac1p

20

1rAer5NZWCk3QgiAMv9e

20

7DHqQ8jHzaNGwV2EZdpy

20

SgkrwkR4yKiFnes2UlR0

20

IIsl0GJzhoaNFysRnq3o

20

sdkCuCIjuhWd0EKVSvkX

20

ndlVqOaFtBJR9dnOrJtt

20

z1FTkTtNdl3mAfpsuWTf

20

C6mbvrfP1MZnlsaAXz4k

20

c4nd56dEwznJZEWHpY9Z

20

Q714VMtOWuicL7Wl3evu

20

C1bfJAuyWiCeHiiAKn7l

20

R7YVyZhjznKy7wQqTu5P

20

hvozbResY22rzNhlTOFU

20

IiUVXxpSU39uFt0Zmkqh

20

YNny8XLMFLtjWxMwYg0O

20

z2tchRtykqwZw9LHjAhf

20

NVjh3s8GUM5ZkAoKZLeS

20

EAVHDpB6ejhd5dRhdvUR

20

TYA0W4L0vObv0ApNjFGC

20

Qi8cRMlBaHAn9obi5lzl

20

89LUfJVysTfrdLrZHFbe

20

c7L2tbZqzyldfHcOxQRr

20

GTCbENfxQDtG2sdFrrWV

20

3U2ligNVXNqEnGGDM24T

20

GY34Sp3bJDOnFUtAN8IT

20

2D2QIlZc4VYtcru2FhbL

20

A4axcp9ggHyUrUNYokCU

20

BuH5q0tzfwinf6EfTYK5

20

whwJzg48b0KYlyj0rWAa

20

pbnKq010wScq7PfUKpG1

Output 11

kCeYamOYCSOgOCaYCeaa

qOOOgCCaCSgImqCSaaOI

CYOSgCCSqCqqmkOIOCmG

CgqYSqqCIqSCmGCICCSm

qCCqSqqSGCmegCgqCOaq

kqOCmqCSYOOGqCmCeIGC

SGqCCqICCaIOIgCCIkCC

COeCSCYOeCgmkGqeCSIq

YeIgkCSSCkSaqOSCqOSC

qCCqCqqeSaCmCCYqCqIS

OOeqGgOCSCkmqgSYCCaO

CkqqqCCqkqgkqqqIqeIO

OmCCmkOCSISCgCaOqCaS

kCIYgqIIkqaqqOeaCSqC

OCYqYCIYkIOqCOCqkCCq

ICCgCqYCqYqCSISOeCkY

kgGOqeqqIYeqmCkSOGaC

SgqGqqSOkeYYYGqCCIqC

CCSCCgGeYCqqmSYkImIq

gOOqSCqSqqYOCqCCCaCq

CqCeqCOYYCkCOggCOqCe

CCGqOCkGqaOGqSCCYeqq

SgkqqkSCqIgGmeqCSkSC

IIqkCGIqgmaOGqqSmqCm

qekCqCIkqgYeCCISSqkY

mekSqOaGqCISCemOqIqq

qCGSkSqOekCmCeqqqYSe

CCmaqqeOCOYmkqaCYqCk

aCmeCCeCqqmIYCYGqYCY

OCCCSOqOYqgaICYkCeqq

CCaeICqqYgCeGggCImCk

SCYSqYgkqmIqCqOqSqCO

gqmqaSeqYCCqqOgkSOGS

IgSSYqqSSCCqGqCYmkqg

YOmqCYIOGIqkYqOqYgCO

qCqagSqqkqqYqCIGkCge

OSkgCqCGSOCYkCmIYIeS

CCSGCqCCekgeCeSgeqSS

SYCCYCICqOaqCCqOkGGC

OgCaSOkCaGCmCmagCkqk

CCISeISqqSeqeIqYGGae

aCICqaYqqqkeeGaOqOSq

GSCaCOeqOCqGCqeGqqYS

CSCkggOSYOqCmGGCOCCS

GYCCSqCaICOmGSqCOCIS

CCCOIkYaCSYqaqqCGgaI

CCaqaqCggGqSqSOYmkCS

CqGCqCqqeqgmeCCeSYIC

qgqIqgCCaCIYkqkCqYCa

qamIqCCCqSaqCOeSIqGC

Input 12

5

10

1234567890

8

S@#!#$op

6

S#!v@m

11

!@#$%^&\*()\_

15

+=-\|]}[{'";:><

Output 12

CCCCCCCCCC

SCCCCCmq

SCCqCm

CCCCCaCCCCa

CCCYqYqYqCCCCCC