

Tugas Kecil II (Tucil II) IF4020 Kriptografi Sem. II Tahun 2017/2018  
Kriptanalisis *Monoalphabetic Cipher*, *Vigenere Cipher*, dan *Playfair Cipher*

Batas pengumpulan : Rabu, 6 Februari 2017, pada jam kuliah Kriptografi  
Tempat pengumpulan : Ruang Kuliah (7604), Pukul 15.00  
Berkas pengumpulan : Kertas A4  
Anggota kelompok : 2 orang

Yang dikumpulkan adalah: laporan sederhana yang berisi

- Berkas cipherteks
- Langkah-langkah yang anda lakukan dalam melakukan dekripsi
- Plainteks hasil dekripsi

### I. Teknik Analisis Frekuensi pada Cipher Abjad-Tunggal

Detektif Sherlock Holmes menemukan sebuah dokumen rahasia di kediaman agen spionase. Sayangnya dokumen rahasia itu dalam bentuk terenkripsi. Sherlock Holmes meminta bantuan anda sebagai seorang kriptanalisis untuk mendekripsi dokumen tersebut. Informasi tambahan yang diketahui adalah dokumen tersebut aslinya dalam Bahasa Inggris dan dienkripsi dengan **cipher substitusi abjad-tunggal**. Semua angka sudah ditulis dalam kata-kata. Pada proses enkripsi ini, orang tersebut hanya mengubah karakter abjad (a..z). Karakter lain (spasi, koma, titik, dan lain-lain) dibiarkan (tidak dienkripsi).

Anda sebagai penerima dokumen harus mampu mendekripsi chiperteks tersebut menjadi plainteks semula meskipun anda tidak mengetahui kuncinya. Anda menggunakan kombinasi teknik analisis frekuensi dan metode terkaan untuk mendekripsi dokumen tersebut. Anda diperbolehkan menggunakan kakas bantu (coretan kertas, aplikasi Ms Excel, maupun membuat program kecil sederhana untuk menghitung frekuensi kemunculan karakter atau untuk keperluan analisis lainnya) untuk menyelesaikan masalah ini.

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ZNLCXKRXBCZWF EWKNAFJNJYNFJLYHKNJPCZWE XLCKWAWJ CXBCZWN AWF PVLVFL
CNJPBKXECZ NKRCR CZXHLFJYCXCWJCZXHLFJYRWFKLPX FJHJYWKLWFKNYPWOWC
QWWJLNOWKNFFJYFVFLSFEWKPWL BKXECZWLWFSJXQJFLCZWOWKNJPVFJYOKNY
PWNCVNWLGFKCVRLXHCZXBCZWN AWA FGNCYUWVXGLFLCWGGVNSWWAXVXPRXBP
KFLLVFJYLPKFDWYORVFKPWFJNEFVLLHAZFLZXXLWLKWNJYWWKFJYWUWJEFEEEX
CZPKFYHFVVRNJEFJRLWGFKFCWNJAHKLNXLJLCZWZHJCWKPF CZWKWKLXBCZWLNO
WKNFJL CWGGWLGHKLHWCZWNKGKWRFAKXLLCZWVFJYOKNYPWFJYNJCXFEWKNAFQ
ZWJCZWEWVCNJPNAWLHOEWKPWLCZWOKNYPWF OXHCWJCZXHLFJYRWFKLPX CZW
LWJXKCZWF LCF LNFJLOWAXEWNLXVFCWYFLCZWF OXKNPNJFVFEWKNAFJL CZWLNO
WKNFJZHJCWKPF CZWKWLGKXOF OVREFSWCZWNKQFRFVXJPCZWJXKCZAXFLCXBF
VFLSFFJYYXQJ CZKXHPZCZWUFVVRXBCZWEFASWJD NWKNUWKF KAZFWXVXPN AFV
WUNYWJAWLZXQLCZFCORFOXHCBNBCWWJCZXHLFJYLRWFKLPX CZWAWJCKFVGVF
NJLXBF EWKNAFFKWQNYWVRNJZFONCWYCKFAWLX BZHEFJFACNUNCRFCCZNL CNEW
FKWGWLWKUWYNJCZWKWEFKSFOVWVFOKWF CFKGNCNJVXLFJPVWVLCZWPVFANFV
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AXJYNCNXJLBHKCZWKJXKCZEWFCZFCZAWAJCKFVGVFNJLWKWFCCZNLNEWAX  
XVFJYEXNLCYHKNJPCZWJWICBNUWCZXHLFJYRWFKLQZNVWCZWPVFANFVGWKNXY  
AXJCNJHNLZHEFJLWJWCKFCWBFKNJXCXLXHCZFEWKNAFCZWKWCKWFCXBCZWNW  
AFGLLWNNWAWFPWLEFSWLJXKCZWKJKWPNXJLNJAKWFLNJPVRZFOVWOXCZBX  
KVFKPWFJNEFVLFJYBXKCZWZHEFJLQZXGKWRXJZWEORWNPZCCZXHLFJYRWFKL  
FPXZHJWCWPCZWKWKLZFUWEXUWYHGCZWWFLCWKJLNYWXBCZWAXJCNJWJCNJCX  
JWQBXJHYVVFJYFJYCZWGKFNKNWGXUNJAWLXBAFJFYFBKXEFHXCLWUWJZCXHL  
FJYRWFKLFPXZHEFJPKXHGLFYFGCCXCZWAXJYNCNXJLXBCZWJXKCZWKJAXFLCX  
BAFJFYFVNUNJPEFNJVRFJLZHJWCWKLXBLWFEFEFVLCZWRGKWFYPKFYHFVVRWF  
LCQFKYLFVXJPCZWWYPWXBCZWFKACNAANKAVWWUWJCHFVVRKWFVZNJPPKWWJVF  
JYCZWLWZFKYNWLCXBFVZHEFJLWCCVWKLHKKUNUWCXYFRFLCZWWLSNEXXKNJC  
ZWNKXQJJFEWBXKCZWEWVUWLNJHNCEWFJNJPLNEGVRCZGWGXGVWCZWAHVCNUF  
CNXJXBAKXGLNJFEWKNAFOWPNJLJNCZWCZWHFAFJUFVVRWLXHCZWFCLXBCZWGK  
WLWJCYFREWIXANXANRCLTHFLZFJYAZNVNFKWCZWWFKVNWLCGVFJCLCXOWPKXQJ  
LXXJBXVVXQWYORAXKJXKEFNDWFJYCZWJOROWFLJFYJYPXHKYLCZWLWFKWFVVLG  
WANWLQZNAZJWWYCXOWNJYUNYHFVVRGVFJCYWYKFCZWKCFJZWNKLWYLOWNJ  
PLAFCCWKWYXKLXQJXUWKOKXSWJPKXHJYCZNLNLFYNLCNJACNXJXBNEXKCFJA  
WNJFEWKNAFJZNLXKRBXKCZWKWFKWJXFJNEFVLNJFEWKNAFFCCZNLNEWLCKX  
JPWJXHPZCXGHVVFVXHPZFCBNKLCZWLWAKXGLEWKWVRLHGGVWEWJCCZWBXXY  
GKXYHAWYORZHJCNJPFJYPCZWKJPOHCORCZKWWCZXLHFJYOACZGWGXGVWXC  
ZNLFKWFFKWLWCCVWYFPKNAHVCHKVNLCLNJCZNLWUWVXGEWJCCZWRFKWBXVV  
XQWYORCZWHJWCWPCZWKWKLXBLXHCZFEWKNAFFJYCZWJAXJLNYWKFVORVFCW  
KORLXEWJNCZWJXKCZWKJGFKCXBCZWAXJCNJWJCCZWWFKVNWLCXJXQJLWCCVWY  
AXEEHJNCRNXLXHCZFEWKNAFNLCZHFAGKNWCFCCZWEHCZXCZWAZNAFEFK  
NUWKNJGWKHORFOXHCCQXCZXLHFJYLFJYBNUWZHJYKWYOACZGWGXGVWZWKWZFU  
WFLRWCJXAXKJOHCCZWRHVCNUFCWLTHFLZPXHKYLFJYAZNVNVCZWRVFLXPXQA  
XCCXJBKXEQZNAZCZWRQWUWFAFKLWAVXCZCZWWFKVNWLCANUNVNDFCNXJNJF  
EWKNAFYUWVXGLNJCZWAXFLCFVKWPNXJLXBCZWPHVBXBEWINAXYFCNJPBKEF  
KXHJYCQWVUWCZXLHFJYOANCNLCZWFVWUWVWJXCZBCZWXVEWAGWXGVWCZWNKA  
HVCHKWNLAXJCWEGXKFKRQNCZERAWJFWFJYCZWCXMFJQFKQNCZCZWLWGWYFXB  
CZWFKRFJLCZKXHPZJXKCZWKJNJVNFJYQNCZCZWLZFPYRFLCRNJAZNJFFCF  
GGKXINEFCWVRCZWLFEWCNEWCZWZWKWQFLKWEUNJPBKEWPRGCCZKXHPZLNJ  
FNCXQFKYLCZWGKXENLWYVFJYXBAFJFFJZWXVEWALKWGKWLWJCCZWOWPNJNJ  
PXBANUNVNDFCNXJNJAWJCKFVFEWKNAFCZWRFKWBXVVXQWYFOXHCCZKWWAWJCH  
KNWLVCWVKORCZWWFKVNWLCANUNVNDFCNXJLXBLXHCZFEWKNAFCZWAZFUNJAHVC  
HKWXBGWKHCZWLWCQXBNKLCFEWKNAFJANUNVNDFCNXJLXBLXHCZFEWKNAFCZWAZFUNJAHVC  
HKWXBGWKHCZWLWCQXBNKLCFEWKNAFJANUNVNDFCNXJLXBLXHCZFEWKNAFCZWAZFUNJAHVC  
CFGFCCWKJQZNAZQNVVFLCBXKEXKWCZFCQXCZXLHFJYRWFKLFLHAAWLLNXJX  
BZNPZVRYUWVXGWYAHVCHKWLVVLCXJVPVNBVHWJAWYORCZWKFYCNXJLX  
BCZWNKGKYYAWLLXKLBXVVXQLNJCZWLFEWCQXVNECXYKWPXJLXBCZWAXJCN  
JWJCNJAWJCKFVFEWKNAFFVLXSJXQJFLEWLXFEWKNAFFJYNJCZWLCKNGXBVFJY  
OWCQWJJCZWFJYWLFJYCZWGFANBNFAKZFWXVXPRGKXUNYWLWUNYJAWXBCZWL  
WUFKNXHLAHVCHKWLOHCCZWXJVRXJWLSJXQJFOXHCNJJRPFKFCYWCNFVKWCZ  
XLWLHKUNUNJPQZWCZWLGFJNFKYLFKKNWCXEFKUWVFJYYWLCKXRCZWLWFKWC  
ZUWKRJANWJCEFRFFJYCZWKWVFCNUWVRHGLCFKCYXENJFJCAHVCHKWLXBCZW  
CNEWCZWFDCWALFJYCZWNJAFJLZWXKNPNJFVGWGXGVWXBXXKCZFEWKNAFVNUWJ  
FQNYWKFJPWXBWJUNKXJEWJCLXJCZWWFLCLNYWXBCZWAXJCNJWJCCZWKWFKWQX  
XYVFJYLQZWKWCZWRSNVVVVSFJYYWKKXJCZWPKFLGWFNXLXBCZWENYQWLCCZ  
RZHJCCXWICNJACNXJLWUWKVFEWKNAFJLWANWLNJAVHYNJPCZWAFEFVFEEX  
CZFJYZXKLWNJCZWYWLWCKWPNXJLXBCZWLXHCZQWLCZHEFJLHOLNLCWJAWYWG  
WJYLXJLEFVWVKFJNEFVLFJYPCZWKWYLVWYLNJCZWFKACNAJXKCZQZWKWCZWK  
WNLUWKREHAZEXKXZHCNJPZCFJPCZWKJPNBLZFJYLWVLFKGVWJCNBHVCZ  
WBNKLCCKFAWXBLWCCVWYUNVFPVWNBWNLNJCZWLXHCZQWLCQZWKWORCZWLWAX

JYENVVWJJNHEOAPXHKYLLTHFLZFJYAXKJXKEFNDFKWAHVCNUFCWYLWWZHJWC  
 KPFCZWKWKL CZWJFCNUWLXBCZNLKWPNXJYWKNUWCZWNKAKXGLBKXECZWEKWFY  
 UFJAWYANUNVNDFCNXJCXCZWLXHCZJEWINAXCZWLFEWAHVCHKFVNJBVHWJAWO  
 KNJPLFAHLCEWUWJCHFVVRLZFKWYOREFJRXBCZWCKNOWLCZFCXBEXHJYOHNVY  
 NJPBKXEFQXHCZXLHFLJYOAPKWFQHKNFVEXHJYLOWPNJCXOWAXJLCKHACWYFK  
 XHJYCXEAOZFEOWKLXBVXPXKQXXYCZWWFKVNWLCOHKNFVEXHJYLNJXKCFEWEK  
 NAFFKWCZXLWXBCZWFYWJFAHVCHKWXBCZWXZNXUFVVWR, AVXLWVRBXXVXQWYOR  
 JWFKORZXGWQVVCKNOWLCZGWKNXYXBPWF CWLFCACNUNCRNLBKXECZWBKLC  
 AWJCHKROACXCZWBNBCZAWJCHKRFYORQZNAZCNEWFUFLCJHEOWKXBEXHJYLZFU  
 WOWWJOHNVCCZKXHPZXHCJXKCFEWEKNAFYHKNJPFJYFBCWKCNLWGKNXYCQXKW  
 PNXLXBJXKCFEWEKNAFYWUWVXGTHNCWFYUFJAWYBFKENJPLXANWCNWL CZWENL  
 LNLNGNUFVVWRFJYCZWLXHCZQWLCBFKENJPFAXEGFJNWYORUNVVPWVNBWLG  
 KWFYHLGCZWWFLCAXFLCQZWKWBNVYLFKWAUVFKWYBKXECZQXXYVFJYLBXKCF  
 WGVFJCNJXPBEFNDWOHCNJEXLGCFLXBCZWXJCNJWJCCZWCKNOWLAXJCNJHW  
 CXVNUWFLWENJXEFYNAWINLCWJAWNJCZWKFYNCNXJFVEFJJWKBZBHJCKWPF CZ  
 WKWKLWUWJCZXHPZCZWRVFASCZWXJWFJNEFVQZNAZEF SWLEXUWEWJCXJCZGWVF  
 NJLWFLRZHJCWYCXWICNJACNXJNJFEWKNAFCZNLHLWBHVAKWFCHKWQNVVXJVRO  
 WAXEWFUFNVFOVWFPFNJCXCZWNJYNFJLCZKXHPZCZWWUWJCQZNAZYWLCKXRLCZ  
 WNKQFRXBVBWCZWLGFJNFKYLKKNUWQNCZZXKLWLCZWFKKNUFVXBAXVHEOHLN  
 JXJWCZXLHFLJYBXHKZHJYKWFYJYJNJWCRCQXNLFYNLFLCWKBXKCFZWXKNPNJFVN  
 JZFCNFJCLXBCZWFWEKNAFJAXJCNJWJCCZWAZNBWFPWJXCBCZWNKXYQJBFVFN  
 LYNLWFLWQNCZJXKWLNLCFJAWCXJWQPWKELCKNOWLKF GNYVRLHAAHEOCXHJBF  
 NVNFKNVVJWLLWLXJCZWNKBKLCOKNWBAXJCFACQNCZWHKXGWFJLNJEFJRAFLW  
 LUFLCVRKWHANJPCZJHEOWKXBCZWFWEKNAFJLQNCZXHCFJRXJWUWJBNKNJP  
 FLZXCQZWKWCZWCKNOWLYWUWVXGFAVXLWKKWVFCNXJLZNGQNCZCZJWQFKKNUF  
 VLCZWRFKWBKWHJCVRCNASWYCXKEWJCYFJYEFLLFAKWYORCZWNKUNLNCXK  
 LCQXWVWEWJCLEFSWCZWWHKXGWFJLOXCZLCKXJPFJYKHCZVWLLCZWNKGXLLWLL  
 NXJXBPHJLFJYFJHJLZFSFOVWAXJUNACNXJNJCZWKNPZCJWLLXBCZWNKAZKNLC  
 NFJAFHLWCZWWUWJCBXJWCZXLHFLJYBXHKZHJYKWFYJYJNJWCRCQXCZWONPPWL  
 CCHKJNJPGXNJCNJCZWNLCXKRXBFWEKNAFZFLZFYCZWWHKXAWJCKNAWBWACX  
 BYWBNJNJPCZFCZNLXCRNJCWKELEXBCZNLXJWEXEWJCNLCXKNFJLYWLAKNOWC  
 ZWGKUNXHLFEWKNAFJAHVCHKWFLGKWAXVHEONFJFYCZWXKNPNJFVGWGXVWX  
 BCZWAXJCNJWJCOWAXEWSJXQJFLNJYNFJLLNEGVROWAFHLWAXVHEOHLNLHJYWK  
 CZWNVHLNLXJCZFCZVZFLKWFZWCZWNJYNWLNJKWAWJCRWFKLJFCNUWFEWKNA  
 FJLZFLAXEWNJCXHLWFLFJFVCWKJFCNUWJFEWOHCNLCNLFENLVFYNJPGZKFLWE  
 WFJNJPOHCBFNVNJPCXLFROXKNPNJFVXKNJYNPWJXHLFEWKNAFJLNJLGNCWXB  
 NCLTHNKSXKNPNJLFEWKNAFJNJYNFJLKWENJLJCZWEKXWYNKWACFJYLNEGVWC  
 WKE

## II. Metode Kasiski

Sekali lagi detektif Sherlock Holmes meminta bantuan anda untuk memecahkan pesan yang dienkripsi dengan *Vigenere Cipher* (lihat pesannya di bawah ini). Informasi yang diketahui hanyalah pesan ditulis dalam Bahasa Inggris. Anda tidak mengetahui kuncinya, namun anda diminta memecahkan pesan terenkripsi ini dengan metode Kasiski. Gunakan program *Vigenere cipher* standard yang anda buat minggu lalu untuk mendekripsinya dengan kunci yang benar (atau memakai program *Vigenere Cipher* yang didemokan di dalam tugas ini). Plainteks dienkripsi dengan program *CryptoHelper.jar* (tersedia di <http://informatika.stei.itb.ac.id/~rinaldi.munir>).

WVMSP	SXKAX	URVCX	WUSTK	HTLPI	RXIBB	UWVTZ	SJKYS	FHGIT	TKMBV
LEZCX	EICNM	TCYGH	GZRDX	AAOWK	HGHNV	LDJYZ	RSPHZ	GKIDU	SHVIR
YMAEP	GLNOT	IDNZZ	YOJNF	OVXHR	GGDEI	PKSCW	WRBUN	KCVUW	PVEGF
UJPTJ	RONPT	USZVL	AAYZG	WITBY	NEGLR	VGVEG	CCRRC	AFSOM	TVGSR
ICSWH	JENXG	ZFTWL	TWXMD	RMKNI	IUCGU	ECPCA	ETDMR	VGCOH	BMVRE
SGBAE	RBAGE	ASTGB	KWTEO	ZFRPU	BDQIT	JVUJE	BHLMX	MVVR	VTILP
GJEVR	PKVNE	YCGGV	VRZY	AIDCV	CZEFC	SVUCK	CFUXA	AROE	DMUVC
XHNDV	VNTKY	BFMTV	GZYRD	BEVJM	MGVVK	WTJYB	IEIAW	TJIVO	RWPXO
GVKIE	PJRWQ	RSNBJ	WETSG	BIWOS	HNVPT	VNZGG	AHUNK	UEPLH	JIDEO
SROUA	FWURA	GIXRL	RHROU	XRBDN	VPAPL	MUECP	CAETA	LYJGW	NBRUL
BIAFO	VIVRF	EFNTD	YGEEU	TVZLN	EYCDC	VEQVO	JUCJ	SMROJ	BGJPA
PLMVL	ERZJV	RLHQG	VETVC	TVDXU	ACOQA	ARUWT	WLGAR	IRVOR	EAKHJ
PCWEN	HSZST	USAQR	TUSTF	RIOUS	UXEKH	XVMXA	WCHXH	RPGPO	UUYDN
ISUSC	RSCVR	CPYPG	VKJEC	PMFOM	LVHGI	YDMDW	EIRVB	ZYESP	QHTMC
GPAKP	DZQWD	PYGVK	DOHAU	SNPIA	TUIMT	KJWXM	NTFUD	ACVLA	CXTRF
YFFCH	RITEL	FQOVN	RLFWU	ZOYIS	VNPAS	FCPHV	GZFRN	PQHJI	LBBMV
SIDMF	MSNFQ	OVNRL	GBNET	VBZYA	IOYGU	YRIWB	VDUYM	ACRTV	EAZTN
ISHHS	RNZRY	IHZAW	GRCRO	TUHXX	QSPMO	EWZPH	XZLSR	LEJHK	CLHBQ
HJETG	VKVL	LPDNM	NLKGJ	RTSYL	KRGNT	ZVRPI	YHJEN	QZAEC	WDFSP
ZEFIB	ZUHZR	OTXEQ	HUVRJ	WROPH	TUSYZ	GWAGB	ISFNQ	UCUBU	MTUQO
XSRZK	THLIO	FRRZR	RPXUC	CPXHR	TGISX	KCCHX	HRPGP	TGPEU	GVEQO
XVSEV	LGGQO	ESUWC	JYGCU	MTLHN	RNDMY	ZCVMV	BNZMW	LYBFL	IFQUD
PPUGC	PWRF	KVVXK	CBVPY	ACZRN	IPAWR	ETVBM	JUROY	BGZEA	HZYEH
HKSCG	CBITK	RTCCO	NWHBK	KMEGA	FOVXH	RGOXN	HDCFG	XHRFK	GLXUW
GEESH	ORIEU	LPSPG	EGCKR	RIORF	GOEG	CYIRO	USTIN	BHVR	IPAIN
ERYMG	CATG	BIFEP	OAJEI	OCMCV	ESFKH	UTURW	PGAZD	GEIPY	CJGEL
FHNVR	DTYBU	GOZDX	VHTUQ	WXIIT	BUIAC	JCCHX	HRZOE	KQLRK	GINFS
OJMXJ	YQVMV	VHEVA	GAFHT	IMBFY	RNSCM	ZEENV	QGTTX	CGHAX	HRJUC
CPUMZ	QKIFH	YFFIV	BOAGO	AGZRN	ISWAQ	RIGCX	RNNJF	OPKEF	WTCEK
LJGQJ	SRWYD	IRHAH	KZIGM	LIOBA	FSQFS	RFBRT	DYWCP	ZEFIB	ZUHIC
QCYSR	HNVM	UMKVL	AGHNV	SPTCW	PGRRO	YVOUH	AHKZI	GMOET	WLBSG
TRRGK	IVDPP	CHQAT	AGDOA	ACBQV	PNFZZ	AASWA	QPTRB	XFCZI	CBGET
UHNVE	PYRVU	WUETG	TERHS	GGWBB	HNVAG	AFHTI	MBFYR	NSCMZ	EENVQ
KIUEA	GCPWT	UFULG	WTCOU	YRVBM	JEXZK	WEECG	WBZTN	AFSUI	SPWKE
TXZRG	GBPRQ	ZKOEY	CRKGT	NBGGP	GVYQJ	MNTSX	LPIPM	BOSNG	VYZNP
KTOPG	EGVKP	AAZMY	PSWGV	GKTWL	YQVMV	VHEFF	KLQIX	MUFWY	IERBP
FGRTN	BJKHP	ARVGP	OAUKI	TWLGB	VIRIO	RJBTA	USGRO	ASKIU	EAGCP
ENQOT	FTWLP	HJIGE	SGKEG	AFSGZ	EAHAR	LTENZ	QWIBB	CZLAI	CHJIF
ESWLE	CAZIV	POJZK	MEAHA	HKZIG	MUWVT	ZSJKY	SVBXV	CTURQ	GRTHF
OVSWH	QFGPI	RJKUT	WLZIK	PDHDU	WPGLQ	GWVEV	BZYEB	HEACG	HNAHV
RIOCQ	CXAFH	XFPWP	AACKN	VHAUE	DMRVG	IRHDZ	ZOCVD	OFAAF	QUENT
JRSFA	IGVZY	ETERS	PHEQD	KIIDK	MTKRA	PHOMI	IFRVC	XPESI	VDTKG
HCSOA	UOETT	YTONG	OZPOE	ESDGH	JQOHB	MTKRA	CWUQI	POIKI	KPRMK
WAFIX	VSXNL	CHMMC	STUIC	NBWUE	SGSXF	FRVSF	UITUS	XFMPU	QQQYL
QBUKK	CVUHJ	MSNBJ	FUGVU	BMROJ	ZKUGT	VUSUQ	UPVZF	TWLAO	TIOSD
RZNNZ	BSUGR	VDZZO	CAFSN	SNTWT	RCIPT	WVCOS	HNVVD	SAOPS	NNHAI
AASWZ	WPLRR	ZYEEL	MDNIO	SHNVR	TNGCP	MNGCG	WAAZC	GGRSR	CLJER
BPWVC	TUCAX	HIOCM	YIRRO	CRRTV	DHJIS	VUTJO	UISFP	MNTOZ	KHTWC
OMSG	VKDOJ	UROKR	TUSEN	EGLLC	VXHRT	OISIA	MPGWO	YIRCE	SYCQG
RTRLI	RVPAG	CPWAG	HNVSX	ACCHX	HRBKN	NPAMP	CWENH	MIIRP	EBCRO
BBZYE	CVPJH	SFGVK	SANOY	JGVEI	SGCES	AUCEE	TNGZI	OEOGQ	GVUCH
OFNHA	FOVTR	RQKUE	SAFOV	SFNBJ	NIELB	CWXTU	SVFPJ	SYHKS	NFCLR
DTUQS	NCOPQ	AGITK	RSTVI	GXCPT	WLKCU	XIZDU	ITPUR	SCVLV	SXVRJ
WRWQR	KACCE	AHAFO	VSFGV	KRVTS	JWPSP	HAOTE	DJAIT	VEQOX	FUCKZ
QUIVR	FGCSX	ACGGW	PRQOR	LAFMB	GRENF	TFLPY	CJGEL	GVKUE	HAPIE
XIBBU	WBGVL	NGEGR	GKKTA	LKSPX	SJWZY	TWLG	JYTFO	TUPDA	QOPHP
NBYRN	SSGJG	WTBQQ	SUIVD	HJMSG	VKIOB	HLGMR	EJBUK	HXUEH	JIIEC
TPOUA	FWUMS	GVGKT	WLPCO	ENFKK	IETER	FGQEY	MOETT	YCGVI	DVBVI

ESPAH	KRGGV	KWUIB	PSCRD	GVKPH	PKYFC	RGRCL	NANZR	CFITR	QZNHP
ARVGC	SNKGG	TWLYD	RVONQ	NZNVD	POVLO	SHNVG	DKQHJ	IYJSX	VASLN
HHSRR	LGDP	LYHQF	SRFBZ	NVWFM	VINGG	OETWL	QVCTE	BTYKR	PUESU
MGUHY	RNSZM	IPHSB	FAEUH	BYZDM	RGVYV	VTUGB	VLEFS	ZVRBZ	RVGVE
JSXVW	PYLWP	KSBTZ	YETYS	DVMOA	CLMEH	BTWWW	ENFZY	QJHIS	UMNGV
KDSTS	TSUGO	HBZVD	PZNCT	XEAHU	LSPUB	HJIHV	GZFRX	HLQCW	SVIYU
IDDPW	VMNTC	BVRPJ	CBVYR	LZGKE	GYCDQ	VTFFK	GEPAC	RUMGU	HOEGH
VDUKE	NGGXF	ABPLU	VLEYO	TUTWP	QKCWA	OOJGO	GACBV	MNQSK	UGXCC
BVLAG	CTVSI	HLRCV	DRLVC	ACHRW	QRFBF	ZYEKV	JQCRO	RGUWS	DBRVK
XAYMC	RSIOY	HYLEA	HNVGD	KQRGJ	ENHKU	TWLPS	DILYW	ULSVP	YBVWA
ARHIO	JNFHR	IAPSZ	FTWLS	BKZEE	GKKHT	FZITM	EQHNV	MQLLS	CXHGV
KDOJU	ROKRS	NBJKH	PAGHY	ESGVK	ZRHAG	FTMNT	GZYAI	JYIUI	DGVKV
RJWRW	QSOI	ZNHXS	CHJIA	AQOVN	IPKOI	MNNHO	FNSVS	PVPEF	GIFNY
BPSFY	PTWGE	THPLD	NYMRG	UWGPZ	DFQQF	HAGIO	ALQJG	RTFTX	FMLOG
QJZOY	QGEIR	NYGGW	CNDKJ	ICAMH	JIAGA	UJPWL	PSVLE	ROXKH	FBYYG
WTUOZ	GLXUW	RGWCE	WHVDH	VAOUY	AYZEN	EGLKC	TITUO	TAUHA	NCTXE
AHYTU	GYCBV	XHVBQ	ZNVOM	KGZEE	VGUND	AWSVG	AHUNK	UEDGH	JXHRW
XJIVU	GTKGA	AQKNE	ZUMKV	LIFPK	TAJZC	PAENR	LZIAD	YBWPE	RLQUZ
NRPBS	PGEV	KGHXS	MGQTH	RFYVN	TJYOF	ZIFCX	KOIOC	SOTEE	CXEEG
VUFQX	ENROJ	CJZQW	QROSH	NVSRP	CBVMF	VQIRU	HLQCH	IAEHN	HUPRC
GQRL	OLVWN	LYFUF	ESCXV	TWLCF	WTTVC	TJECL	AOUXR	ROZZS	TVLHJ
ICNIY	VSDML	OVYRN	ZVYEC	VKSPE	IAQRL	DTKYB	GRTVF	KSODR	MBGER
GVWLA	ZLQOP	HAGHN	VTXTC	VGAAF	KXZTX	UEHJI	NRKYN	AHJMA	KRGVB
LIEHO	JMQJT	USIRT	PZRFQ	THVQK	RRIOO	ICOEF	WTTAB	WYBKE	OSOJN
HXJFQ	CYSRR	KOTTU	QWXID	NAGXE	IVZCV	LPBAV	VIXHL	RJIRP	IRRNT
BKGG	EPOCI	IILQH	JETUS	XVGPY	BSFMT	NGRZK	TSWHJ	ETROX	KHFBY
YGWIA	ROWFT	YCBVT	AEHYF	FIOCK	QVLOK	KIEXU	RSTGO	ABKTT	TKYBF
IVRBZ	YAI	SAAEE	SRZNS	LBHQW	TBFSP	WTHRV	GVBHH	NVDGH	UGPSL
VBQNI	IOTCN	GAAWI	RCIPT	WVCIA	RKVDW	LECGW	SBTGI	AHAMF	GTRBO
IYTWL	JOPHO	JBKIS	LOMKG	VEQSY	VR IPL	UEEMC	OTZAU	VPTGE	RBTLL
RIOCF	GERGV	WLAZL	QHJIE	NFZYQ	JHISQ	JAQQG	LSTKC	LVINF	WBVDP
TYUGX	OOCZY	PDTNS	KMAAR	NVRRB	JOPIU	ZOYNE	RHLGG	IFECS	IEEHG
FUQAQ	SZFTW	LZIKP	DVBMJ	SDTCO	TIAFG	KVMIV	FOXIB	RSTNO	GZCOH
JEPHK	UTWHL	CVLEE	GZYE	LYFGG	AFSYN	HTYCS	PXIES	NFUHL	QKGVE
QSSFL	XZFSF	ENQFK	UURLB	HQEGE	WILLI	BPONP	AARAG	PTYDZ	QSRFK
ULLSO	YJGFE	RBVRR	IPAIN	ERYMH	RDAFY	THICG	SJRNS	PLRGI	DFCSV
BJPJR	KRGFR	UYAKL	ZZQGK	RRAGD	DVPGC	XTUSZ	FPXUB	WEETV	BMKHP
ARVGL	ITVKI	FAVMF	ULAQP	KVNPI	YBFSN	RRHLT	BVPSK	QPESY	JIKLR
VCRTU	SYZGC	ZMTFE	MNUKR	RTAFS	UMGAG	UWTWL	PSUML	VSTTE	DMRVG
POPOR	GOEBJ	OVMOA	RGDAV	LBVQY	SRGCV	RTICW	PKEKH	KESXC	CZAVE
COOIE	SHLRT	IDRQU	IAILB	OVXHR	HODED	MRVGE	DRFAG	TXVLO	PHTUS
XVWPZ	YQQQP	ESNVN	HPTSR	VOTFG	DMTVD	FGWTE	IIKUG	PLUQJ	PHPRZ
CQBGZ	FMNTG	OETWL	DCTYM	BTVFM	ELGWV	LERJO	UECJC	DQMNG	GZ FAR
VLHKR	UBIYG	RDJCG	USFES	VRIGZ	YBFVE	OIOCD	XUETT	SMNRU	EWPYB
GKXUF	SJKOQ	LYGUY	MRRZY	AIAFS	GERGV	WLAZL	BSUGR	VPKUB	NZCBG
GAJOY	KHTVL	ZAGAH	GKFFS	HKOII	AARZY	AIZGU	PWOSW	TTOBW	JSVIW
BFQJU	VNCGV	IDGVG	KIIAM	CMXHR	QOKIT	ZYZQR	GGWSV	TDYCO	QZEET
XFMIO	CTKVS	GQGKA	HAPCR	LEOIZ	NECVU	YPSWS	FUDVD	SAOPS	LBUOT
AAYCG	GERPV	ZYAIH	QSTME	FCLJE	XZKWE	IPVGU	UEHPK	AGHIN	HKCYE
YCQGH	EQHNV	EGBNH	KSNPO	AJICN	DITXH	RFJRM	PNCHQ	WTEII	KUGLQ
HJETU	OJRLG	LYRAF	ERBXV	PPPPS	FWOVB	ZYEWV	SGGSF	GVKTH	PZRSN
SVRFY	RTEVK	DGMIN	FIYAT	VJCIM	SGGJZ	SRVTS	TIDGV	GKTWL	MJGRO
SOHRK	TYWVC	HSHTL	VRTKK	OLSRP	FGTKX	UEWVL	AQPKV	NGLNO	KVEQO
TUPAH	QHGVE	QCBVR	QBRVC	HTUST	SETUB	OOEGR	RGXAX	UYBFF	UVZJZ
NVDMF	MAAFO	RIEPK	WWPTR	BUXVS	HAMAG	RDGVO	JNTDB	OOEGR	WTKHT
ZYAGF	LBQOK	HGLCQ	GWSCW	ZJICA	FSUXR	RSZNH	XJFZK	RKRRZ	FLPAP
WPISV	BZYEW	VSGGW	HNRHV	ECKSU	QYTVA	SVDXH	RSNCB	RTUIE	IOCST
YPGWU	EPGLQ	IOEBY	MZFRT	ZRCTI	TUSSK	OUBJZ	HYNPH	OFNPS	GHASU

GGOUE	XURVG	QAVBY	KRTLK	OPSPR	BZIEC	JFKCW	FBITU	CJARW	PKTUS
KETXY	CZGRG	GVUWT	WLUON	OWNMG	JFPYY	GCAAG	SXKOL	LPOVX	HRQXF
SHYMO	FWSRW	YDIRH	AHKZI	GMNRD	XURST	VUCHK	UTWLU	OVIRF	IVGLN
ISHRI	OCZKY	ASICS	PLAER	GKWDY	IFGTA	VFOEG	XAYTT	IQHST	KSXNF
HKRTU	SKOCP	CYHGH	HBIYV	SDMNC	OTEVW	OJTWL	RCHLE	NDYFF	ESYGV
IRJVO	THBBQ	HJEVR	PKVNQ	YMIIL	TVBXV	ASFDC	TREJR	KTOGH	RWQRS
BAKKI	BLQSX	INGVK	GOIZY	BFGOZ	DGJST	ZMTVL	EQSIF	RPAMF	UERRW
TGOHP	RWQRT	USVFM	ELGOP	WIAOA	XUHAD	OTJRB	AGSAC	KMBKR	GGVKZ
RRPRM	QVFES	ZKICN	YPQYT	ROXKH	FBYYG	WAFDU	ITTUR	GQJFH	HAIES
LQHTY	CGWUE	WTYCH	JYSGS	TRCXV	SGNCR	RDGZR	XUEHJ	IEEQO	KAYPB
HTCIA	UZFCP	YPMQR	WVHNC	IULYG	WWUNZ	ZYEGL	UOUIV	RFEIE	PZMBV
STUSK	TOCVK	MQJTU	SHRYL	HQPQS	MVBMN	IIORV	GKRRO	ZGOGA	MTRYT
RCRZA	HVLSQ	JTUSH	ZGVLQ	HPSDR	GUWMT	KGHGV	RNBKR	N*IYYR	GENQH
NVHDS	GRCCV	VZRRS	DMRVG	VIPVH	IICNG	BIGOA	GZRNI	PLJGW	TZSTK
AZLLI	PEWNF	KJBNA	FSGVU	CHOFN	IOCDQ	TUYOZ	ZOCVD	HJITB	KTJAC
KTWNP	AFHNR	TRPPQ	NIDGV	KSANJ	MINHO	AZEIE	HWMBF	AIGVV	RNXJN
ZKRYQ	SVZCI	ZFWUY	NPZKR	SPTMR	GPOSG	ZFIRM	MFVMT	HRKTA	ATJMU
EIYWT	XDXYC	QVPYV	BZFTW	LBOPK	EENUE	ELOCF	GLEFI	HJEFB	CBVPY
QWKUA	CKROM	MNTOH	RTWKG	BPIRN	BJJLT	LNKJM	LRHNV	CPAYG	VVOCV
KLNUV	JRGHB	HHGCL	PYMIP	HHVAO	JPPUG	QTICG	WTRIC	OCFXM	LYOVF
MEVLW	CRUFW	TYIHA	FSASU	AUVC I	CFRCQ	WTNMY	TAATZ	IVLIF	AUKHT
YUSGT	SNBJZ	MESMF	GWAAR	HPTWL	RWOIT	USEJE	IVSHV	SFYSK	EOGAF
KCVDF	OJVNH	LZZCG	KPZUL	DDMYG	JLAFP	RFTIL	BCWXT	USRZG	WAYBF
XHRQX	FWSZM	TUGRR	OSZNV	WCCRP	ESZKV	ICNYF	QYNQH	NVMPY	CWPXE
EFUIT	WLQYG	PEGCT	JFDBL	RKRPB	AVVIX	HLRJI	RPIRR	NTBKU	KZEHG
GEEFB	YZNCE	YCWLE	CARSU	XIZCT	POUWY	BKGAA	RAECT	YROKR	TLHNV
EGBNH	KSNYO	YKESM	MFOSR	RHNRN	WVSFU	XHRSX	LPIMP	BNESG	SJWOG
TMFGX	HNBNF	UGZDF	QQIGG	YKAGA	MBVLE	ZCXEI	CNMTC	YGHGZ	KHDZC
KJSFY	SJRTD	UASWR	BHFJV	NTKZM	RSSF S	YJIDU	QVCHA	PVGEC	TVDGW
VVVJG	CFDYR	VGVAV	BUWAH	OYBFT	UZWIV	MXE CR	YMTUZ	OKHXJ	QHJET
QSYTE	CKCRH	SRFSB	VRPSF	CWVSJ	OYEOI	UCQGW	SNFOC	YALRV	CPIGW
YTLTH	PHJET	ZOTPL	XRCHJ	IEYRK	IPAPL	MVLOH	UNKTW	LGFDI	SGQNR
NRLUO	UXOGO	QVSWL	JHGVA	ARCVA	IOCFV	LEFHU	IMXAU	OUROG	ITKIA
HPCWR	DZWJE	IVORH	JETGV	KWIGZ	RDAVO	PZGJT	XJQIT	KEFOT	UFAVU
GQGCH	F XVDR	HSGGH	BLHNV	PGVEF	GWSVJ	KTOAS	YDUIO	SHNVE	GBN HK
ZEPCR	LMCHL	RVLEF	SSVAC	AASTX	AVBJV	AIODC	TXHRD	KFPAL	MTVLE
ESMZO	CHNMT	SCYOY	KIRMJ	CYMSN	UXFUC	KFI IK	IAUGM	AAHLQ	JIOSV
UKAHO	NIOMC	RFUTK	UYUO	INGGG	EDKVJ	QCRIP	UGJWW	PAV TY	SUSYU
OLURV	GWIQS	UWAKV	JQCRO	NGLRS	IHQYO	LOHFU	IMDYC	HJIHH	BJIES
ZMTTI	FHUKV	SHOCZ	VIRVB	MZNIO	CJCYL	GSJRR	RHBSU	ETGVK	JEPZG
RGMNU	SXTUA	HLSWQ	CYIZT	HXUEH	JIIEX	KNEAS	CFAEN	QAUEE	NTCHV
LEVFK	EDHDG	TVPYS	FUDTW	LGBVI	NFSNV	AIVDH	JIFV F	YKSJY	ESVLA
GFKRC	WLBHJ	ICVHE	JUQZC	EWING	KGMEH	YCOEL	EQDUD	PTPGO	UTHLL
ORTXU	EHJSS	RKNFH	PKQIT	ZIISJ	KHTMY	ZNSFZ	TZFFE	BKWEI	AARCV
RTMJS	GMNTO	IIOHZ	RVGSP	RBOET	WLBOT	OOEVO	UICNZ	SPIAG	VXFOU
ZRVGA	AISYK	HPADC	NPOJS	JJMPZ	FSFJL	NHZYE	JWNST	JLBCX	JOUOM
IUISN	BJCEU	ARVGG	OEDYV	STUAO	UIDVB	YLCRL	QGKZE	OZGEK	TAQCH
KAFSU	LSHBP	UGENQ	DADIR	LDONP	IGWYZ	MEVQG	KFLRH	UKEAS	UVCXP
ECVFR	IPMBQ	JTUSO	EHPIG	HCRTF	ROVDQ	BRHJI	RBAGE	SLLPS	CGCHG
ZFMTK	RCNSS	FSYDO	JURWP	KTBHK	ESDMR	VQYSN	BJJIC	IYHVP	ENBJV
VTURV	GCRRU	GIDTK	RVKWC	NHGJT	GVNVG	ESRLI	VPIPM	BCPTU	SIFRE
ZCGHS	UARHP	AGJFO	GSLBU	OJTHP	LDQQP	RWOFR	WLPQW	PAASA	DSWVS
ZFFEE	SMRRS	LBOUS	NYMGJ	MPSJG	CQPYS	ZYESL	QHTYC	GWUEE	CJMAR
ESFSJ	KHTLL	HKVEY	OTUSR	HNSUS	UGVUW	VTZSJ	KYSGC	ZYEHV	PGFRT
VBKGE	CPLGW	PAEOY	DACFB	WGHIA	HNVCD	BLHTC	SVRKF	RPAQS	CESVB
ZYERP	RWGWE	ISTR S	UHPBQ	VTUOY	DIHLL	IOXHR	OYYLP	FBSGT	IARXZ
FIZRV	GIFSS	IKOUA	FSGVU	CHOFN	LHQSX	MDRBZ	CYIVR	ONPYG	FGLMP
AGQCW	IFGNF	WCIWH	JIFNW	RLRTA	MFGSC	PIVPT	WLQWV	ISBTZ	YERPR

WGWDR	GZION	LBWVA	AFBUI	MPSNF	CGTVQ	KKOGL	ZIKPD	GVKTI	IPCGQ
JTUWY	IEVPM	BCJTR	FKMEC	AFSOS	SGAGJ	SXCCS	CVTUE	ARKTZ	ZIVRE
VHNVR	WLPQW	PAASA	DNDYN	COTEV	WCRSG	LMQEY	PVSJZ	NHACO	FXHRG
OKEDM	NCOTE	VWCRS	GPBRN	IDJWZ	YTJUL	SNWBL	SDGLD	YCFUR	OGPED
OSLPB	GBPYP	XVRHH	QWUSF	GSTZM	PNGBG	HBHHH	PTWLP	COENF	HNVMH
LJJGW	ASHKI	TWLCF	WTTVC	TIODT	YTVIR	ECUDO	UAFSE	MTLGH	LIAKG
BIWHN	RNFLT	ZFOEO	EQHNI	OJNFH	JIWNZ	RJBNA	SBPIL	YSXJA	CKRVQ
YGUDU	DPTPG	VCWRV	QNVRU	PLRUX	HNBGE	YDAFS	TVOZO	TJIIL	GHKWA
PWZPA	AYCOF	CEKHK	ESXCC	ZAWAP	YKUBN	SMCVI	RFHNV	BPFMT	PEPYS
YEEKL	POIEI	AFKXA	XUCRV	LEZOY	JIKLJ	SXILF	CLGOE	BJOTM	TLCLK
HTAUC	EINGI	XZEHI	CTQVE	GVKUI	HHQHG	VTUSI	ZTXLQ	CPXHR	BUITW
VDHJI	BNMYN	IUAJM	TICBJ	KIESH	LRRYT	RCRZC	DURWP	YEQUH	SEPZG
UPMFV	QGETR	VKAGV	CVORT	ECAPS	VLEOO	EFFCH	NZGWC	BBZZN	JLBHQ
ETGFG	TTGPA	VJSLV	RGPMF	RCFUF	UGBKM	EGHEO	KRRRU	GZNTK	RVGQA
FGOME	ALTSN	WOSDU	GUAHP	WVCOS	HNVTL	VASPX	UEWKJ	BTMMF	GXHRR
OJAHA	CFVLE	GWSVW	WLLWV	LAQPK	VNIOC	DNEYT	FULNS	VDACR	YEWIY
STUYH	QVSNB	JVMEL	PCTWI	GKGJN	DASBV	MLGVK	KHRLI	HWVYJ	VKENP
WJSUJ	LBIXZ	SWLBI	PHEEH	NVBDB	PPQRK	VBMJT	WHRHJ	IVVZR	RSDMR
VGVIP	VIFUG	AGSTW	AARGD	BPZQO	FSRFC	LKHPA	RWOIB	ECAXH	IHLIS
JLBKK	IICNR	CVLEE	SMZOC	PRKCW	AGHNZ	SELPW	QHTUO	ZKHTH	PWUXO
PFGKS	DMCIT	SPROY	KHTFN	FQKRR	GYVDD	URVGM	RTFGE	DIVSF	UQAQS
ZYEQH	WCHRA	CZKJA	CKGHU	LIQRK	ERDTY	BVVEN	GAIEH	HDCEY	SBTOE
TTYLO	VMOAO	RWAHJ	GBCXI	BB					

Editlah hasil dekripsi tersebut sehingga enak dibaca, tambahkan tanda baca yang relevan jika perlu (karena program Vigenere Cipher yang digunakan mengabaikan tanda baca).

### III. Kriptanalisis Playfair Cipher

Sherlock Holmes juga menemukan cipherteks yang lain yang dienkrpsi dengan *Playfair Cipher*. Bantu mereka memecahkan cipherteks ini dengan menggunakan analisis frekuensi kemunculan bigram dalam Bahasa Inggris.

Catatan:

1. Sedikit berbeda dengan yang diterangkan dalam kuliah, di sini disisipkan huruf "X" jika karakter di dalam bigram sama (bukan "Z" seperti yang saya jelaskan dalam kuliah. Contoh: AMBASSADOR → AM BA SS AD OR → AM BA SX SA DO RX (huruf X disisipkan jika hanya terdapat 1 huruf pada bigram terakhir)
2. Pada hasil dekripsi, penerima pesan harus membuang sembarang huruf X yang tidak memiliki makna
3. Penerima pesan juga harus menentukan apakah huruf I/J pada hasil dekripsi adalah I atau J (karena huruf J dibuang pada bujursangkatr Playfair 5 x 5)

SU NL SQ QK EI GL SL UO GS PB PY LK CT VL KA KF DI QB NS LE VL  
DU IU TC YA QT CP QD RC IU KW IB DU VK UD LA BK DM OU DC QS GO  
LK DA KT SK VN AO RY EG LE KM NV KS IP LM DC AO AI QU KM NV KS  
IA DC QW QE EA YL BC AW SM ZX LP NV KI PS DK PG PR LD UQ LH QT  
AM KF ZD VI CU TI QK TV OK OA CK UD SY KW KL QD BC LA LM CO PF  
KO IH SP OQ TL VA KS SE QT BC KE QU EF CQ FL TQ MC TC OH LK CT  
DD QK TV TC LK NS VA DI OA KL PY BC SK RK QT BC AK UQ RY MS DQ  
UO PK AO PL CV QK MA TC OH LK PS LV EL LV ES LK KI YG VT LG QU  
YQ LM CO PF SM BC LS SP VI EM KF TI OS TF SD BC SK EW BC QI EM  
KF LP CK EK SX AK VT PY LE QM CT KS NL MQ TC GM CV PK DM EL BC

OA WL MI TU SD CT DI BH QT KO CQ FN LP GO LP TE BC OU GE CN AO  
DW OA LY LP CO PG LP QT DI AB PY VT QK RE SL UO GS TL BI OK PK  
TI UE TU KL GK AO DQ UA LP DS QT OA EG QT HA SP DM SM CV IT LP  
CE IV LK DS NA SG LE BC MO TQ KS CE PS KS EM NV KV LK PV TC MS  
QK CP CU IP XG QI UQ YR LP UV SP OQ FX DQ OA DI KQ SU FV DI WQ  
KA YP CV QK LP FW OK WS EQ BA LK CI QI PK UO LE NL FQ QU EI SL  
WL HO GS CV QK QT CQ FN LP CO MI KI TR LY EG OA MS AM KF ZD AO  
SK LM DC QT CR TC DM EU TC OK TV OA GK UQ DL LV TV QK MR BC QU  
VC OS TC UI TC TI DU WQ AE MM KF KR SQ CV GS AN PY CV LE PR OA  
WL QK BC KO OU SD CV QK QD KO IH SP OQ PL AQ LD QU SE LV LC QU  
IK DM IA BC AW PY LE IU GY VT KO KI DM PY BC SP QT CQ FN LP FD  
CU EF OA KF QK CT PS IP TI DU WQ MQ PK QS BC AW PY LE SW LK WA  
PY EI EF BC AW GM WS AL LV MC UE KE QU BO BC LP BC SO YG LW AO  
TV KQ BC AO DI QB PI OS EM DC QS CE VL ID OQ SD QK UE VI PM DT  
RY QI KF VT AL LV EI GL TQ AB KO US LK NV KI SG EG LS VI KA QG  
QU SM TF LM KF BC AO SO TV QK AX QK LE PS KF PY CO WM CK LE KV  
CU DC VT EG SU TQ TC AO KO QT BC LD QT MA WA PY QD CU HC TI DU  
WQ EQ WQ ZD SP PY SK DM SM QT GL IC QU TC GM KB OA WS PK MS AO  
VI LP TC OH LK CT GQ UE SG CU SW QT CP DM TO KF QD MI FV DS LV  
TC GM NC QT LF VT CM BI OK PK EM NV PS QT QV VC DM OA PY SK GU  
LW SK CU PF TC GM BC SY AK IE VC VS LA AP QL DL IC KO BC LO RM  
SQ PV QD LQ QT LF VT CM DC QW QE TC GM PS OA MP EL PK QT MS AO  
VI LP TI DU WQ AE CQ IA CT CQ FN LP FC ME HZ QS PS TI DU WQ AE  
VA KS SB GM BC ME IW AO CV SL TC OA PF BC LK KO KO IH SP OQ PL  
AL RI VC VP CU ES LM TL LM QA VG CU EF DU WQ OK HO GS CV QK DQ  
YP NL AA DC QS GO LK HQ KF QT RP NL AE DC QW QE LV EI BC AW GS  
PT SK VN AO EL IY SK DU EL VO BC AT SD RS AL HO GS CV QK MA KL  
WL CE SG VF LE VL KI DM MA BC LP OE LA LN KM QT CA AO SV DS EL  
DQ YP NL SF CU EF OA TQ PL NL AE DC QW QE EM KF LP SP OQ PL SF  
IU YQ VI QM ZB BC SP QT TV TC TC GM CT DC QW QE LC ID IM QK BC  
KE DU AL DC QS GO SP DM IP GM FL PL QY UQ YE GS OK SU IV SG CU  
SW LS LK KP YN RK QT OQ TL DU QM CE DC QW QE MT LP DU SL EW OP  
QY IA SD QK CK LM DC AO TV FQ QT AM KF GM WS CV SL KI EW OP KI  
DA BC AO VO BC BC SO IG QE LN LM HR LE HO UO PF BC LE DC QW QE  
GE AP FV DI OG QT CP IK DM EU TC OA DS PK GE PS KB UQ SV OK HK  
VP DM WK DF BC LM WS YP DA KS SG CU PF EQ EG QD OI TQ QU CU HC  
TI DU WQ SN LM DC AO TV FQ QT AM KF VT MP QI BC MA DX GM CV CV  
TV PK DM QB VC KO TC SP LE SN GM KS PL NM LE KS SG DM IA KI HZ  
QS GK UQ DL LV TV QK MA KL KV QU TE VL GM OA OC LM EM KF KM TC  
GY SG CV DS TC CU TV EM TQ AB QU PS PK DI KF VC OQ PK WK BF LP  
IV PF KS SG CU PF RI MA VC VG VF CQ PL NL AX NA PA DI TL CV BI  
KS EM TV FP QC VI LP KB PY KI CQ KF VS OC RM AF UQ VK GM KF AL  
PY TQ PF QT CQ FL TQ MC TI DU WQ AE SW AO VG AM LV ES IM KT LD  
QE LN WE KO PZ PA CQ CN LW LK SU BQ KS OA DS LV MT OA EP EI DC  
QS GO LK GS TL KA KF CV SL QI CT OC KW PK DM OU WE PL IC VS VC  
OS LV TI DU WQ EF PA EM OA MA EI MC QU KS UO FQ QT AM KF BC LP  
QT BC MD QB VC KO TC SP LE LP GK UO SM YA TI DU WQ AE DK WL BK  
DM DU SL EW OP EQ EG KI MS QT US ZB EI TC OH LK CT GM WS CV SL  
DQ IP DM OU WE BF UK ZN OS EM KF GQ OS KF EV DM TL DC QW QE VT  
IW AO LW SK DM CO QL DL OA TF SO AT UQ KQ QB DS CO PL SL UO GS  
ZD AO LM PL CV QK MA KR NL EQ DL AL SL PK PY VA DC QW QE GY QT  
IV GP AE DQ QB CK GM BI BK QD QU PV KA IG LK KI HQ LV TI DU WQ



EF VT PI VI CT DC SY AO KO IH KO QU LA US QT SP KO OA DS LV TV  
 KQ OG AO KI GQ LW LS QU SK US LD QU DI OA SG EG LS VI EM KF QK  
 SO FQ QI OA AL SL PK PY VA DC QW QE LT QE QK DA YG UQ SV OK AI  
 SD LE VL VN RE NL AF YP OK ET WN UC LM YG KW NA KW CN LK PY HR  
 QT CP GM KT SD MR EL BC MO TQ KS CE PS KS TV ES IH UH RC YF AO  
 EU OA CO WS IA LM KF EU OA QB LO RM SQ CT GM OG AO KI OA SG FZ  
 CU HC AO LO RM SQ PV KO IH SP OQ PT IB SW LK QC BC VT EK OA PI  
 OM VC EW QM FK IK LW NA SR KX GZ QT CQ FN LP CE BI OK PK EA LM  
 QP KM NV KS UO PK DM OU TI DU WQ AE BC LP QT EU TC IK DM OA NA  
 SG LE QT BC KE QU EF NL KQ TR TQ QK AL KN OC LV EA LW AK AM KS  
 NV CT UE LM AT SD CT QD BC LM SL UO GS TL DC QW QE AV TC LS PY  
 LK IK DM AN HQ SQ TQ AB UQ SV PF KO IH SP OQ FX RM SQ PV LP OK  
 RI VC XG OU TC KO IH SP OQ TQ PK DM QB VC KO TC SP LE SQ TC QW  
 UE IH CF LD QT KO PZ KS TC QT RP KF WF SP SR GH SK VN QT CP DM  
 GE PS IM QT HG OA RI LK CT PS KF PY CO WM CK LE CT ID VF RB OS  
 MI BK QW QK SK CU OG QD MA LN SY SR AM NM SK US LS KI KS SG CB  
 GM KV QS LN MA QK AK OA WS PK TC OH LK CT GQ UE ZL EP QT CP DM  
 SM OP TC DM VA DU QM FE LN EL DI KF MS AO VI LP KO IH SP OQ PB  
 AM DS TC QW UE IH CG SR BC QT SM OP SK NA SG SD DU VI KE CU DC  
 GP OA PK MC SY MK SD MR EL QD LW GP KF KO SG VF LE VL KI DC PY  
 KS IA DC QW QE EA BC VT EK EP LK TC DM BR NM VI TI DU WQ AE PI  
 IH BI OA BC SP VT HQ KF MS LK PS SN UE LP VA IH VF LE VL HQ AL  
 HO GS CV QK AV TC LS EL AE KE DM OA QY QG QT MA LN ZA QU LE BI  
 OK PK TV PL SL UO GS GM WS KQ SV DS QU KQ PB UQ DL LV TV QK MA  
 KS SG DM IA QT BC SO IG AM LV AI QW UE TC WO PA BC LP SW AO GQ  
 LO OM PK VN IU KQ WS UQ CN LM DC AO AI QT BC QI EM KF EI GL SL  
 UO GS TL DC QW QE MI KF AO SU KL TC DM WL PK OU LW KO IH SP OQ  
 TL VA KS SL LN ZD SP EW QM HK SK DM YE XG QU YE OG BC LK BC MO  
 TQ KS CE PS KS TI LP KT SD UE LD QT AM KF HZ NV BC AO SO EM EQ  
 CV CI LP AL PY PL KU IB ZD SP EW OP EM KF ZD SP OW LE PK NY KR  
 KL LG LQ QU GE NM LM KF ES PY CT KS KY QI EF KM KI KS UA QT SP  
 AK QE VI OS EM KF GY SG CV DS TC GM KB OA WS PK MS AO VI LP KS  
 SG DM IA GQ UE KS SG CU PF ZD SP SM NV KS IA EU TC KK IK DM OU  
 TC OH LK CT OA OK TV FP QT HD IU YQ LK KB QB VC VS LM FV DI QB  
 PS TU SQ PV DQ IA DC QW QE EM KF MP QE VT CU PF QB LF SD LE VL  
 PY VA PS KF PY CO WM CK LE CT EW QM GO LS IW SW MP RC HZ OG LK  
 GQ UE TI DU WQ AE LP FE LM WS KS SG DM IA VO BC EU OA CV SL KI  
 DQ HI EI PQ LM NL AL PY TQ PF FL QL

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