

Tugas Kecil II (Tucil II) IF4020 Kriptografi Sem. II Tahun 2014/2015
Kriptanalisis *Monoalphabetic Cipher, Vigenere Cipher, dan Playfair Cipher*

Batas pengumpulan : Rabu, 11 Februari 2015, pada jam kuliah Kriptografi
Tempat pengumpulan : Ruang Kuliah (7604), Pukul 13.00
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 kriptanalis 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.

(*soft copy* tugas ini dapat di-*download* dari <http://informatika.stei.itb.ac.id/~rinaldi.munir>)

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znlcxkrxabczwfewknafjnjnfnjlyhknjpczwexlckwawjcxbczwnawfpwl,vf
lcnjpbkxecznkcrczxhlfjycxcwjczxhlfjyrwfkflfpx,fjhjywklwfknypwo
wcqwjlnowknffjyfvflsfwewkpwlbkxeczwlwf.sjxqjflczwowknjpvfjyo
knypw,ncvnwlgfkcvrlxhczxbczwnawafg.ncywuwvxglflcwggw-
vnswwaxvxprxbpkfllvfjyl,pkfdwyorvfkwfjnefvllhazflzxklwl,kwnj
ywwkfjywuwjefeexcz.pkfyhfivr,njefjrlwgfkcwnjahklxjl,czwzhjc
wk-
pfczkwkklxbczwnowknfjlcwggwlgkhlhwczwnkgkwr fakxllczwvfjyokny
pwfjynjcxfewknaf.qzwjczwewvcnjpawlhoewkpwlczwoknypw,foxhccwj
czxhlfjyrwfkflfpx,czwlwjxkczwflcflnfjlowaxewnlxvfcwyflczwfoxkn
pnjfvfewknafjl.czwnowknfjzhjcw-
pfczkwkklgkxofovrefswczwnkqfrfvxjpczwjxkczaxflcxbfvflsffjyyxq
jczkxhpzcwufvvrxbczwefaswdnwknuk.fkazfwxvxpnafvwunywjawlz
xqlczfcorfoxhcbnbcwwjczxhlfjylrwfkflfpxczwawjckfvvgvfnjlxbfewkn
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affkwqnywvrnjz foncwy.ckfawlxbzhefjfacnuncrfccznlcnwfkwgkwlwk
uwynjczkwefksfovwwfokwfcfkgncnjvxl fjpwwl.czwpvfanfvaxjyncnx
jlbhkcwkjxkczewfjczfcczwawjckfvgnjlfkwfccznlcnwaxxvfjyexn
lc.yhknjpczwjwicbnuwczxhlfjyrwfl,qznvwczwpvfanfvgnkxyaxjcnj
hwl,zhefjlgwjwckfcwbfknjcxlxhczfewknaf.czkwckwfcxabcznawafgl
(lwwnawfpwl)efswljxkczwkjkwpxjlnjakwflnjpvrrz foncfowoxczbxkv
fkpwfjnefvl fjybxkczwzhefjlqzgxkwrxczwe.orwnpzcczxl fjyrwflf
pxzhjcwk-
pfczkwkklzfuwexuyhgczwwflcwkljnywxbcwaxjcnjwjcnjcxjwqbxhjy
fjyfjyczwgkfnknwkgkunjawlxbafjfyf.bkxefoxhcluwjczxhlfjyrwfl
fpxzhefjpkxhglfyfgccxczwaxjyncnxjlxbczwjxkczwkjxflcxbafjfyf,
vnunjpefnjvrflzhjcwklxblwfefeevl.czwrkgkwyfkyfhwvrvflcqfky
lfvxjpczwwypwxbcwzfkacnaankavw,wuwjchfvvrkwfaznjppkwjvfjy.cz
wlwzfkynwlcxbfvvzhefjlwccvklhkhunuwcyfrflczwwlsnex(xk,njczw
nkxqjjfewbxkczwelwvwl,njhnc-ewfjnjlnegr'czwgwxgv').
czwahvcnufcnjxbakxgljfewkna fowpnjlnjczwczhfafjufvvr,lxhcz
wflcxbczwkwkwlwjc-
yfrewinaxancr.lthflzfjyaznvnfkczwwfkvnwlcgvfjclcxowpkxqj-
lxxjbxvwxqwyoraxkj(xkefndw)fjyczwjorowfjlfjyphkyl.czwlwfkfw
vlwanwlcqznazjwwycxownjynunyhfvvrgvfjcw,ykfczkwczfjczwnklwyl
ownjplafccwkwyxklxqjxuwkokxswjpkxhjy.cznlnlfynlcnjacnxjxbnegx
kcfjawnjfewknafjznlcxkr,bxkczkwkfwjxfjnefvljfewknaffccznlcn
ewlckxjpwjxhpzcghvfgvxhpz.fcbnklcczwlwakxglekwvrlhggvwewjc
czwbxxygkxyhawyorzhjcnjpfjyfczwknjp.ohcorczkwczxhlfjyoaczwg
wxgvwbcznlfkwffkwlcwvwyfknahvchkvnlcl.njcnlywuwvxgewjccz
wrfkwbxvwxqwyorczwzhjcw-
pfczkwkklxblxhczfewknaffjyczwj,axjlnywkfovrvfcwk,orlxewnjczwj
xkczwkjgfkxcbcwaxjcnjwjc.czwwfkvnwlcslxqjwccvwyaxeehjncrnjl
xhczfewknafnlfczhfafgknwcf,fczwxhczxbczwaznafeknuwknjgwk.
orfoxhccqxczxl fjylfjybnuwzhjykwyoaczwgwxgvwzkwzfuwflrwcjxax
kj,ohcczrahvcnufcwlthflz,pxhkylfjyaznvn.czwrflvpxkqaxccxj,b
kxeqznazczwrqfwufaxflwvaxcz.czwwfkvnwlcannvndfcnxjn fewkna
fywuwvxgljczwaxflcfvkwpxjlxbczwpvhvxbewinax.yfcnjpbkxefkxhj
ycqwuwczxhlfjyoa,ncnlczwfaznwuwjcxbczwxvewagwxgv.czwnkahv
chkwnlaxjcwegxkfrqnczerawjfwfjyczwckxmfjqfk,qnczczwlgkwfyx
zwfkrfjlczkxhpzjxkczwkjnynffjyqnczczwlfjpyrjflcrnjaznjf.fcf
ggkxinefcwvrczwl fewcnewczwzokwqlfkwxunjpbkxewprgcczkxhpzlj
fncxqfkylczwgkxnlwyvfjyxbafjffj.czwxvewalkwkwkwlwcczwowpnj
jpxbanunvndfcnxjnjawjckfvfewknaf.czwrkwbxvwxqwy,foxhcczkwaw
jchknwlvfcwk,orczzwfkvnwlcannvndfcnxjxblxhczfewknaf-
czwazfunjahvchkwxbgwk.czwlwqxbnklcfewknafjanunvndfcnxjl,nje
winaxfjygwkh,lwcfgfccwkjqznazqnvvflcbxkexkwczfjccqxczxl fjyrw
fkl.flhaawl lxjxbznpzvrywuwvxgwyahvchkwl,fvvlckxjpvrrjbvhwj
yorczwckfyncnxjlxbczwnkgkywawllxkl,bxvwxqlnjczwlfewcqxvnencw
ykwpxjlxbczwxjcnjwjc-
njawjckfvfewknaf(fvlxsjxqjflewlxfewknaf)fjynjczwlcngxbvfjyow
cqwujczwfjywl fjyczwgfana.fkazfwvxprgkxunywlnunywjawxwbczwl
ufknxhlahvchkwl,ohcczwxjvrjwlsjxqjfoxhcnjfrpkwfcywcfnvfkcz
xlwlhkununjpqzwjczwlgfjnfkylfkknuw-
cxefkuwvfjywlckxr.czwlwfkczwuwkrfjanwjcefrf,fjyczkwvfcnuwv
rhglcfkcyxenjfjcahvchkwlxbczwcnew,czwdcwal fjyczwnjaf.l.czwxkn
pnjfvwxgvwxbjxkczfewknafvnuwnjfqnywfkjpwxbwjunkxjewjcl.xjczw

wflclnywxbcwaxjcnjwjcczkwkfwqxyvfjyl, qzkwczwrsnvvwsfjyyw
wk.xjczwpkfllgvfnjlxbczwenyqwlcczwrzhjccxwicnjacnxjlwuwkfvf
knafjlgwanwl, njavhynjpczwafewv, efeexczfjyzxklw.njczwywlwkckwp
nxjlxbczwlxhczqwlczhefjllholnlcwjawywgwjylxjlefvvkwfjnevflfjyp
fczkwylwlyl.njczwfkacnajxkcz, qzkwczwkwnluwkrehaexkwzhjcnjp
czfjpfzczwnjp, bnlzfjylwfvlfkwgvwjcnbhv.czwbklcckfawxblwccvwy
unvvpwvnbwnlnjczwlxhczqwl, qzkworcwzlwaxjyenvvwjlnheoapxhky
l, lthflzfjyaxkj (xkefndw) fkwahvcnufcwyl (lwzwhjcw-
pfczkwkkl). czwjfcnuwlbcbznkwpnxjywknuwczwnkakxglbkxeczwekwf
yufjawyanunvndfcnxjcxzwlxhcz, njewinax.czwlfewahvchkfvnjbvhwj
awoknjplfahlcxewuwjchfvvrlzfkwyorefjrxbczwcknowl, czfcxbexhjyo
hnyvynjp.bkxefoxhcczxhlfjyoapkfwcohnfvexhjylowpnjcxowaxjlc
kha cwyfkxhjycxcoazfeowklxbvxpxkqxy.czwwfkvnwlcohnfvexhjyl
njcx czfewknaaffkwczxlwxbcwzfywjfahvchkwxbczwxznxufvvr, avxlwvrbxv
xqwyorjwfkorzxgwqvwvcknowl.czwgwknxyxbpkwfcwlcfacnuncrn
lbkxec zwbklcawjchkroacxczwbnczawjchkrfy, orqznazcnewfu
flcjheowkxbehjylzfuwovwjohnvcczkhpxhczjxkczfewknaf.yhknj
pfjyfbcwkcznlgw knxycqxkwpnxjlxbjxkczfewknafywuwxgthncwfy
ufjawybfkenjplxanwcnwl-
czwenllnllngnufvvrffjyczwlxhczqwl.bfkenjp, faaxegfjnwyorunv
vpwnbw, lgkwfylhgczwwflcaxflc, qzkwbnwvylfkwavfwkwybkxecz
wqxyvfjylbxkczwgvfjcnjpxbefndw.ohcnjexlcfkclxbczwa
xjcnjwjcczcknowlaxjcnjhwcxvnuwflwen-
jxefynawinlcwjaw, njczwckfyncnxjfvfjjwkbzhjcw-
pfczkwkkl, wuwjczxhpzcwrvfasczwxjwfjnefvqznazefswlexuwewj
cxjczwgvfnjlwflr.zhjcwyxcwicnjacnxjn fewknaf, cznlhlw
bhvakwfchkwqn vvxjvrowaxewfufnvfovwpfnjcxczwnjynfj
lczkxhpzcwuwjczqznazywlcxrlczwnkqfrxbvnbw.czwl
gfjnfkylfkknuwqnczxxklwl.czwfkknufvxb axvheohl
njxjwczxhlfjybxhkhzhjykyfjyjnjwcr-
cqxnlfynlflcwbkxkczwxknpnjfvnjzfoncfjclxbcz
wfewknafjaxjcnjwjczwaznwbfpwjcxbczwnkxqjbfv
vnllynlwflw.qnczjxkwlncfjawcxjqpwkel, cknowl
kfgnyvrlhaaheocxhjbfenvnfknvjjwllwlxjczwnkbnk
lcoknwbaxjcfacqnczwhkxgwfjl-
njefjraflwlufclcvrkwyhanjpczwjheowkxbcz
wfewknafjllqnczxhcfjrxjwuwjbnknjpfzxc.qzkw
czwcknowlywuwxgfavxlwkkwvfcnxjllzngqnczc
zwjwqfkknufvl, czwrfkwbkwthwjcvrcknaswy, c
xkewjcwfyfjyefllfakwyorcwnkunlncxkl.cqxwv
wewjclefswczwwhkgwflloxczlckxjpfjykhczw
ll-
czwnkgxllwllnxjxbphjl, fjyfjhjlzfsfov
waxjunacnxjn jczwknpczjwllxbczwnkazknlcnf
jafhlw.czwwujcxbxjwczxhlfjybxhkhzhjykyf
jyjnjwcr-
cqxczwonppwlcchkjnjpgxnjcnjczwnlcxkrx
bfewknaf, zflzfyczwwhkwajcknawbbwacxby
wbnjn jpczfcznlcxkrnjcwkelxbcznlxjwexewj
c.znlcnkfjlywlaknowczwkwunxhlfewknafjahv
chkwlflgkw-
axvheonfj.fjyczwxknpnjfvwgxgvwxbcwaxj
cnjwjcowaxewsxqjflnjynfjl, lnegvrowafhl
waxvheohlhlywkczwnvhlxjczfczwlkwfazwyc
znjynwl.njkwawjcrwfk'jfcnuwfewknafjl'
zflaxewnjcxlwflfjfvckjfcnuwjfew.ohcn
cnlfenlvwfynjpgzkflw-
ewfjnjp, ohcbfnvnjpcxlfr, foxknpnjfvxkn
jynpwjxhlfewknafjl.njlgncwxbnclthnksr
xknpnj, fewknafjn jynfjlkwefnjlczwe
xkwynkwacfyln egvwcwke.

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
VRRZY	AIDCV	CZEFC	SVUCK	CFUXA	AROEG	DMUVC	XHNDV	VNTKY
BFMTV	GZYRD	BEVJM	MGVGK	WTJYB	IEIAW	TJIVO	RWPXO	GVKIE
PJRWQ	RSNB	WETSG	BIWOS	HNVPT	VNZGG	AHUNK	UEPLH	JIDEO
SROUA	FWURA	GIXRL	RHROU	XRBDN	VPAPL	MUECP	CAETA	LYJGW
NBRUL	BIAFO	VIVRF	EFNTD	YGEEU	TVZLN	EYCDC	VEQVO	JUCJJ
SMROJ	BGJPA	PLMVL	ERZJV	RLHQG	VETVC	TVDXU	ACOQA	ARUWT
WLGAR	IRVOR	EAKHJ	PCWEN	HSZST	USAQR	TUSTF	RIOUS	UXEKH
XVMXA	WCHXH	RPGPO	UUYDN	ISUSC	RSCVR	CPPYG	VKJEC	PMFOM
LVHGI	YDMDW	EIRVB	ZYESP	QHTMC	GPAKP	DZQWD	PYGVK	DOHAU
SNPIA	TUIMT	KJWXM	NTFUD	ACVLA	CXTRF	YFFCH	RITEL	FQOVN
RLFUW	ZOYIS	VNPAS	FCPHV	GZFRN	PQHJI	LBBMV	SIDMF	MSNFQ
OVNRL	GBNET	VBZYA	IOYGU	YRIWB	VDUYM	ACRTV	EAZTN	ISHHS
RNZRY	IHZAW	GRCRO	TUHXZ	QSPMO	EWZPH	XZLSR	LEJHK	CLHBQ
HJETG	VKVLS	LPDNM	NLKGJ	RTSYL	KRGNT	ZVRPI	YHJEN	QZAEC
WDFSP	ZEFIB	ZUHZR	OTXEQ	HUVRJ	WROPH	TUSYZ	GWAGB	ISFNQ
UCUBU	MTUQO	XSRZK	THLIO	FRZR	RPXUC	CPXHR	TGISX	KCCHX
HRPGP	TGPEU	GVEQO	XVSEV	LGGQO	ESUWC	JYGCU	MTLHN	RNDMY
ZCVMV	BNZMW	LYBFL	IFQUD	PPUGC	PWWRF	KVVXK	CBVPY	ACZRN
IPAWR	ETVBM	JUROY	BGZEA	HZYEH	HKSCG	CBITK	RTCCO	NWHBK
KMEGA	FOVXH	RGOXN	HDCFG	XHRFK	GLXUW	GEESH	ORIEU	LPSPG
EGCKR	RIORF	GQOEG	CYIRO	USTIN	BHVRR	IPAIN	ERYMG	CAGTG
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	HNVYZ	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	PDH DU	WPGLO
GWVEV	BZYE B	HEACG	HNAHV	RIOCQ	CXAFH	XFPWP	AACKN	VHAUE
DMRVG	IRHDZ	ZOCVD	OFAAF	QUENT	JRSFA	IGVZY	ETERS	PHEQD
KIIDK	MTKRA	PHOMI	IFRVC	XPESI	VDTKG	HCPOA	UOETT	YTONG
OZPOE	ESDGH	JQOHB	ZZNVZ	CWUQI	POIKI	KPRMK	WAFIX	VSXNL
CHMMC	STUIC	NBWUE	SGSXF	FRVSF	UITUS	XFMPU	QQQYL	QBUKK
CVUHV	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	OMSFG	VKDOJ	UROKR	TUSEN	EGLLC	VXHRT
OISIA	MPGWO	YIRCE	SYCQG	RTRLI	RVPAG	CPWAG	HNVSX	ACCHX
HRBKN	NPAMP	CWENH	MIIRP	EBCRO	BBZYE	CVPHJ	SFGVK	SANOY
JGVEI	SGCES	AUCEE	TNGZI	OEOGQ	GVUCH	OFNHA	FOVTR	RQKUE
SAFOV	SFNBJ	NIELB	CWXTU	SVFPJ	SYHKS	NFCLR	DTUQS	NCOPQ
AGITK	RSTVI	GCXPT	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 F	JYTFO
TUPDA	QOPHP	NBYRN	SSGJG	WTBQQ	SUIVD	HJMSG	VKIOB	HLGMR
EJBUK	HXUEH	JII EC	TPOUA	FWUMS	GVGKT	WLPCO	ENFKK	IETER
FGQEY	MOETT	YCGVI	DVBVI	ESPAH	KRGGV	KWUIB	PSCRD	GVKPH
PKYFC	RGRCL	NANZR	CFITR	QZNHP	ARVGC	SNKGJ	TWLYD	RVONQ
NZNVD	POVLO	SHNVG	DKQHJ	IYJSX	VASLN	HHSRR	LG DPA	LYHQF
SRFBZ	NVW MF	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	QRSOI
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	PGEGV	KGHXS	MGQTH	RFYVN
TJYOF	ZIFCX	KOIOC	SOTEE	CXEEG	VUFQX	ENROJ	CJZQW	QROSH
NVSRP	CBVMF	VQIRU	HLQCH	IAEHN	HUPRC	GQRLI	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	BKGGR	EPOCI	IILQH	JETUS	XVGPY	BSFMT	NGRZK
TSWHJ	ETROX	KHFBY	YGWIA	ROWFT	YCBVT	AEHYF	FIOCK	QVLQK
KIEXU	RSTGO	ABKTT	TKYBF	IVRBZ	YAI AF	SAAEE	SRZ NZ	LBHQW
TBFSP	WTHRV	GVBHH	NVDGH	UGPSL	VBQNI	IOTCN	GAAWI	RCIPT
WVCIA	RKVDW	LECGW	SBTGI	AHAMF	GTRBO	IYTWL	JOPHO	JBKIS
LOMKG	VEQSY	VRIPL	UEEMC	OTZAU	VPTGE	RBTL L	RIOCF	GERGV
WLAZL	QHJIE	NFZYQ	JHISQ	JAQQG	LSTKC	LVINF	WBVDP	TYUGX
OOCZY	PDTNS	KMAAR	NVRRB	JOPIU	ZOYNE	RHLGG	IFEC S	IEEHG
FUQAQ	SZFTW	LZIKP	DVBMJ	SDTCO	TIAFG	KVMIV	FOXIB	RSTNO
GZCOH	JEPHK	UTWHL	CVLEE	GZYES	LYFGG	AFSYN	HTYCS	PXIES
NFUHL	QKOVE	QSSFL	XZFSF	ENQFK	UURLB	HQEGE	WILLI	BPONP
AARAG	PTYDZ	QSRFK	ULLSO	YJGFE	RBVRR	IPAIN	ERYMH	RDAFY
THICG	SJRNS	PLRGI	DFCSV	BJPJR	KRGFR	UYAKL	ZZQ GK	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	GOEJB
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	GZFAR	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	TDYCQ	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	VJ CIM	SGGJZ	SRVTS	TIDGV
GKTWL	MJGRO	SOHRK	TYWVC	HSHTL	VRTKK	OLSRP	FGTKX	UEWVL
AQPKV	NGLNO	KVEQO	TUPAH	QHGVE	QCBVR	QBRVC	HTUST	SETUB
OEGR	RGXAX	UYBFF	UVZJZ	NVDMF	MAAFO	RIEPK	WWPTR	BUXVS
HAMAG	RDGVO	JNTDB	OOEGR	WTKHT	ZYAGF	LBQQK	HGLCQ	GWSCW
ZJICA	FSUXR	RSZNH	XJFZK	RKRRZ	FLPAP	WPISV	BZYE W	VSGGW
HNRHV	ECKSU	QYTVA	SVDXH	RSNCB	RTUIE	IOCST	YPGWU	EPGLQ
IOEBY	MZFRT	ZRCTI	TUSSK	OUBJZ	HYNPH	OFNPS	GHASU	GGOUE
XURVG	QAVBY	KRTL R	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
OJTW H	RCHLE	NDYFF	ESYGV	IRJVO	THBBQ	HJEVR	PKVNQ	YMIIL
TVBXV	ASFDC	TREJR	KTOGH	RWQRS	BAKKI	BLQ SX	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	IIEQO	KYPUB
HTCIA	UZFCP	YPMQR	WVHNC	IULYG	WWUNZ	ZY EGL	UOUIV	RFEIE
PZMBV	STUSK	TOCVK	MQJTU	SHRYL	HQPQS	MVBMN	I IORV	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	AUVCJ	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	NVMPI	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	LPIPM	BNESG	SJWOG	TMFGX
HNBNF	UGZDF	QQIGG	YKAGA	MBVLE	ZCXEI	CNMTC	YGHGZ	KHDZC
KJSFY	SJRTD	UASWR	BHFJV	NTKZM	RSSFJ	YJIDU	QVCHA	PVGEJ
TVDGW	VVVJG	CFDYR	VGVAV	BUWAH	OYBFT	UZWIV	MXEJR	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	ARCAV
IOCFV	LEFHU	IMXAU	OUROG	ITKIA	HPCWR	DZWJE	IVORH	JETGV
KWIGZ	RDAVO	PZGJT	XJQIT	KEFOT	UFAVU	GQGCH	FXVDR	HSGGH
BLHNV	PGVEF	GWSVJ	KTOAS	YDUIO	SHNVE	GBNHK	ZEPCR	LMCHL
RVLEF	SSVAC	AASTX	AVBJV	AIODC	TXHRD	KFPAL	MTVLE	ESMZO
CHNMT	SCYOY	KIRMJ	CYMSN	UXFUC	KFIJK	IAUGM	AAHLQ	JIOSV
UKAHO	NIOMC	RFUTK	UYUO	INGGG	EDKVJ	QCRIP	UGJWW	PAVTY
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	JIFVF	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
AISSY	HPADC	NPOJS	JJMPZ	FSFJL	NHZEY	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	PFGRT	VBKGE
CPLGW	PAEOY	DACFB	WGHIA	HNVCD	BLHTC	SVRKF	RPAQS	CESVB
ZYERP	RWGWE	ISTRS	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	GBPXC
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	JIKIJ
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	RGPMP	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	IHLSY	JLBKK	IICNR	CVLEE	SMZOC	PRKCW
AGHNZ	SELPW	QHTUO	ZKHTH	PWUXO	PGFKS	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 dienkripsi 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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