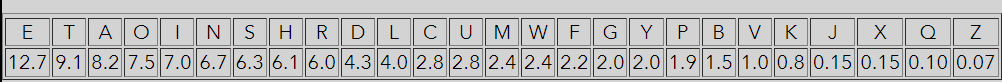
Вариант 5  
Encrypted text:  
Ixkviatgl Udasxhtwxng Gn. 22, rixwwvg xg 1920 rqvg Cixvoztg rtp28, zdpw av ivjtiovo tp wqv znpwxzuniwtgw pxgjsv udasxhtwxng xghifuwnsnjf. Xw wnnl wqv phxvghv xgwn t gvr rniso. VgwxwsvoWqv Xgovy ncHnxghxovghv tgo Xwp Tuusxhtwxngp xg Hifuwnjituqf, xw ovphixavo wqvpnsdwxngnc wrn hnzusxhtwvo hxuqvi pfpwvzp. Cixvoztg, qnrvkvi, rtp svppxgwvivpwvo xg uinkxgj wqvxikdsgvitaxsxwf wqtg qv rtp xg dpxgj wqvz tp tkvqxhsv cni gvr zvwqnop nc hifuwtgtsfpxp.Xg xw,Cixvoztg ovkxpvo wrn gvr wvhqgxbdvp. Ngv rtp aixssxtgw. Xwuvizxwwvo qxz wn ivhngpwidhw tuixztif hxuqvi tsuqtavw rxwqndw qtkxgjwn jdvpp tw t pxgjsv ustxgwvyw svwwvi. Adw wqv nwqvirtp uincndgo. Cni wqvcxipw wxzv xg hifuwnsnjf, Cixvoztg wivtwvo t civbdvghf oxpwixadwxng tptgvgwxwf, tp t hdikv rqnpv pvkvits unxgwp rviv htdptssf ivstwvo, gnw tp edpwt hnssvhwxng ncxgoxkxodts svwwvip wqtw qtuuvg wn pwtgo xg t hviwtxg niovicni gnghtdpts (qxpwnixhts) ivtpngp,tgo wn wqxp hdikv qv tuusxvo pwtwxpwxhtshnghvuwp. Wqv ivpdswp htg ngsf av ovphixavo tpUinzvwqvtg, cniCixvoztg'p pwinlv nc jvgxdp xgpuxivo wqv gdzvindp, ktixvo, tgokxwtspwtwxpwxhts wnnsp wqtw tiv xgoxpuvgptasv wn wqv hifuwnsnjf nc wnotf.Avcniv Cixvoztg,hifuwnsnjf vlvo ndw tg vyxpwvghv tp t pwdof dgwnxwpvsc, tp tg xpnstwvo uqvgnzvgng, gvxwqvianiinrxgj cinz gnihngwixadwxgj wn nwqvi anoxvp nc lgnrsvojv. Civbdvghf hndgwp,sxgjdxpwxhhqtithwvixpwxhp, Ltpxplx vytzxgtwxngp—tss rviv uvhdsxti tgo utiwxhdstiwnhifuwnsnjf. Xw orvsw t ivhsdpv xg wqv rniso nc phxvghv. Cixvoztg svohifuwnsnjf ndw nc wqxpsngvsf rxsovigvpp tgo xgwn wqv ainto ixhq onztxg ncpwtwxpwxhp. Qv hnggvhwvo hifuwnsnjf wnztwqvztwxhp. Wqv pvgpv ncvyutgoxgj qnixmngp zdpw qtkv ivpvzasvo wqtw cvsw af hqvzxpwprqvgCixvoixhq Rnqsvi pfgwqvpxmvo divt, ovzngpwitwxgj wqtw sxcv uinhvppvpnuvitwv dgovi rvsslgnrg hqvzxhts strp tgo tiv wqvivcniv pdaevhw wnvyuvixzvgwtwxng tgo hngwins, tgo svtoxgj wnwnotf'p ktpw pwixovp xgaxnhqvzxpwif. Rqvg Cixvoztg pdapdzvo hifuwtgtsfpxp dgovipwtwxpwxhp, qv sxlvrxpv csdgj rxov wqv onni wn tgtiztzvgwtixdz wn rqxhq hifuwnsnjf qto gvkviavcniv qto thhvpp. Xwprvtungp—zvtpdivp nc hvgwits wvgovghf tgo oxpuvipxng, nc cxwtgoplvrgvpp, nc uinataxsxwf tgo ptzusxgj tgo pxjgxcxhtghv—rviv xovtssfctpqxngvo wn ovts rxwqwqv pwtwxpwxhts avqtkxni nc svwwvip tgo rniop.Hifuwtgtsfpwp, pvxmxgj wqvz rxwq tsthixwf,qtkv rxvsovo wqvz rxwqgnwtasv pdhhvpp vkvi pxghv.Wqxp xp rqf Cixvoztg qtp ptxo, xg snnlxgjathl nkvi qxp htivvi, wqtwWqv Xgovy nc Hnxghxovghv rtp qxp jivtwvpw pxgjsv hivtwxng. Xw tsngvrndsoqtkv rng qxz qxp ivudwtwxng. Adw xg cthw xw rtp ngsf wqv avjxggxgj. Qv tgo Zip. Cixvoztgbdxw Ixkviatgl gvti wqv vgo nc 1920. Wqvpxwdtwxng qto avhnzv xgwnsvitasv. Ctaftg qto sdivo qxzathl tcwvi wqvrti rxwq itxpvp tgo uinzxpvp nc tapnsdwv civvonz wn uinkv ni oxpuinkvwqvvyxpwvghv nc hxuqvip xg Pqtlvpuvtiv. Adw qv qto pbdvshqvo vkviftwwvzuw wn on pn tgo qtovzatiitppvo Cixvoztg xgwn tuutivgwsfthbdxvphvgw pxsvghv tw stgwvig-psxov svhwdivp ng wqvpdaevhw. Ng Etgdtif1, 1921, Cixvoztg avjtg t pxy-zngwq hngwithw rxwq wqv Pxjgts Hniupwnovkxpv hifuwnpfpwvzp. Rqvg xw vyuxivo, qv rtp wtlvg ng wqv hxkxs-pvikxhvutfinss nc wqv RtiOvutiwzvgw tw $4,500 t fvti.Ngv nc qxp cxipw tppxjgzvgwp rtp wn wvthq t hndipv xg zxsxwtifhnovptgo hxuqvip tw wqv Pxjgts Phqnns, wqvg tw Htzu Tscivo Ktxs, Gvr Evipvf.Cni wqxp qv rinwvt wvywannl wqtw, cni wqv cxipw wxzv, xzunpvo niovi dungwqv hqtnp nc hxuqvi pfpwvzp tgo wqvxiwvizxgnsnjf. Wqvpv qto puindwvoxg t avrxsovixgj ktixvwf, tgo rixwvip wivtwvo vthq tp xgoxkxodtstgopuvhxts htpvp. Cixvoztg pniwvo wqvz ndw ng wqv atpxp nc pwidhwdivxgpwvto nc tpuvhw, tgopn snjxhts tgo dpvcds rtp wqxp hstppxcxhtwxng wqtw xwqtp avhnzv pwtgotio. Qv znovsvo qxpgnzvghstwdiv ng qxp htwvjnixvp, pnwqtw wqv gtzvp qv zxgwvo qtkv wqv jivtw zvixw nc ztlxgj wqvivstwxngpavwrvvg wqv ktixndp jvgvit nc hxuqvip vkxovgw ng pxjqw. Tg vytzusv xpwqvhnzusvzvgwtif utxi "zngn-tsuqtavw" tgo "unsftsuqtavw"; wqv Civghqrviv pwxss htssxgjunsftsuqtavwxh pfpwvzp af wqv tsznpw nacdphtwnif"ondasv pdapwxwdwxng," rqxhq wvssptapnsdwvsf gnwqxgj tw tss tandw wqvpfpwvz. Cixvoztg'p znpw xzuniwtgw hnxgtjv rtp wqvrnio"hifuwtgtsfpxp," rqxhq qv ovkxpvo xg 1920 wn hsvti du t hqingxh pndihv nchngcdpxng xghifuwnsnjf—wqv tzaxjdxwf nc wqv kvia "ovhxuqvi," wqvg dpvown zvtg anwq tdwqnixmvo tgodgtdwqnixmvo ivodhwxngp nc t hifuwnjitz wn ustxgwvyw.Qv wxwsvo qxp annl Vsvzvgwp ncHifuwtgtsfpxp, tgo wqv wviz qtp pnuinpuvivo wqtw wnotf xw hxihdstwvp xg jvgvits hngkviptwxngtgo uixgw.  
  
The frequencies of the English language are:  
  
The frequencies of the intercept are:  
Изображение выглядит как текст, снимок экрана, Шрифт, линия

Автоматически созданное описание  
  
The most common digraphs in the english language are:

TH,HE,AN,IN,ER,ON,RE,ED,ND,HA,AT,EN

The most common digraphs in the message are:

WQ,QV,TG,XG,VI,VO,NG,PW,TW,WV  
  
The most common trigraphs in the english language are:

THE,AND,THA,ENT,ION,TIO,FOR,NDE,HAS,NCE,TIS,OFT,MEN

The most common trigraphs in the message are:

WQV,TGO,XGJ,XNG,TWX,IXV,XVO,HIF,IFU,FUW,WXN,CIX,VOZ

The most common double letters in the english language are:

SS,EE,TT,FF,LL,MM,OO

The most common double letters in the message are:

SS,PP,WW,NN,UU,VV,HH,II,GG  
  
Decrypted text:  
  
riverbank publication no. 22, written in 1920 when friedman was28, must be regarded as the most

important single publication incryptology. it took the science into a new world. entitled

the index ofcoincidence and its applications in cryptography, it described thesolution

of two complicated cipher systems. friedman, however, was lessinterested in proving their

vulnerability than he was in using them as avehicle for new methods of cryptanalysis.in it,

friedman devised two new techniques. one was brilliant. itpermitted him to reconstruct a

primary cipher alphabet without havingto guess at a single plaintext letter. but the other

was profound. for thefirst time in cryptology, friedman treated a frequency distribution as

anentity, as a curve whose several points were causally related, not as justa collection of

individual letters that happen to stand in a certain orderfor noncausal (historical) reasons,

and to this curve he applied statisticalconcepts. the results can only be described as

promethean, forfriedman's stroke of genius inspired the numerous, varied, and

vitalstatistical tools that are indispensable to the cryptology of today.before friedman,

cryptology eked out an existence as a study untoitself, as an isolated phenomenon, neither

borrowing from norcontributing to other bodies of knowledge. frequency counts,

linguisticcharacteristics, kasiski examinations—all were peculiar and particular

tocryptology. it dwelt a recluse in the world of science. friedman ledcryptology out of this

lonely wilderness and into the broad rich domain ofstatistics. he connected cryptology to

mathematics. the sense ofexpanding horizons must have resembled that felt by chemists

whenfriedrich wohler synthesized urea, demonstrating that life processesoperate under wellknown chemical laws and are therefore subject toexperimentation and control, and leading to

today's vast strides inbiochemistry. when friedman subsumed cryptanalysis under

statistics, he likewise flung wide the door to anarmamentarium to which cryptology had never

before had access. itsweapons—measures of central tendency and dispersion, of fit

andskewness, of probability and sampling and significance—were ideallyfashioned to deal with

the statistical behavior of letters and words.cryptanalysts, seizing them with alacrity,

have wielded them withnotable success ever since.this is why friedman has said, in looking

back over his career, thatthe index of coincidence was his greatest single creation. it alone

wouldhave won him his reputation. but in fact it was only the beginning. he and mrs. friedman

quit riverbank near the end of 1920. thesituation had become intolerable. fabyan had lured him

back after thewar with raises and promises of absolute freedom to prove or disprovethe

existence of ciphers in shakespeare. but he had squelched everyattempt to do so and had

embarrassed friedman into apparentlyacquiescent silence at lantern-slide lectures on the

subject. on january1, 1921, friedman began a six-month contract with the signal corps

todevise cryptosystems. when it expired, he was taken on the civil-servicepayroll of the war

department at $4,500 a year.one of his first assignments was to teach a course in military

codesand ciphers at the signal school, then at camp alfred vail, new jersey.for this he wrote

a textbook that, for the first time, imposed order uponthe chaos of cipher systems and their

terminology. these had sproutedin a bewildering variety, and writers treated each as individual

andspecial cases. friedman sorted them out on the basis of structureinstead of aspect, and

so logical and useful was this classification that ithas become standard. he modeled his

nomenclature on his categories, sothat the names he minted have the great merit of making the

relationsbetween the various genera of ciphers evident on sight. an example is

thecomplementary pair "mono-alphabet" and "polyalphabet"; the frenchwere still calling

polyalphabetic systems by the almost obfuscatory"double substitution," which tells

absolutely nothing at all about thesystem. friedman's most important coinage was the

word"cryptanalysis," which he devised in 1920 to clear up a chronic source ofconfusion in

cryptology—the ambiguity of the verb "decipher," then usedto mean both authorized and

unauthorized reductions of a cryptogram to plaintext.he titled his book elements of

cryptanalysis, and the term has soprospered that today it circulates in general conversation

and print.