

**1. Simple menu, no MWTO (middle wheel turnover)**

**a.**

ciphertext:

cmfru ibigu mbsgo snyzm ffxid  
rtwap pejbi oceqk eyisl ioudh  
ebfmq mqzoo vczid yabzn jjhdo  
qjgvs lrisy qyzoj uhfou fdplb  
ndbnr hnsoz flnhw xgylx kligz  
pwjiy bhbuo cibfn ubpec wabvn  
kgbmp hnwt

crib:

THEGERMANSBELIEVED  
CMFRUIBIGUMBSGOSNY

Reflector: B

Rotors: II III V

**b.**

ciphertext:

lghjn xkoer gtpli jvacm moait  
frlit zhtdr yougo opfmg skocr  
abzrh xpxuq xmqmv vydsf ysuwn  
ypgpd kbmbv hxbbw cntwx yhhkk  
twqpr mccxe mxcfq ncpeg zdhcm  
lqefo bfqyg ilxdd votgl uurqu  
xrzdm yplko udagg tsguz cadjq  
kvhmk wpymk uvdho knkwq ocoj  
kygou uyewu fjyxq qkqoq vbghp  
ekoid tneyey govhk igkde bl

crib:

THEENIGMACODEWASTHE  
JVACMMOAITFRLITZHTD

Reflector: B

Rotors: I II IV

c.

ciphertext:

yfedy bfaie gbgch lmyxw conje  
vlbkc tyvtt getcl oujbi dnrqr  
jfzkc sagcv rvoqu spzvx gmfu  
ocygs nxbei cypif ktqqt alqem  
pqznn hxegd jdbsi sxrej ddsqw  
wjpbb yahyh tcxcv ekvgy alfep  
ogxls f

crib (Italian)

JSIDIBARRANIJSIDIBARRANIJ  
IDNRQRJFZKCSAGCVRVOQUSPZV

Reflector: C

Rotors: ? I II (left rotor unknown)

d.

ciphertext:

cpkyd sqvwz tuoks rmsjf njcxt  
voazc pojhr bwdjx xhtgx hraof  
lvvei vxapu qttcf bepes hugkx  
heuch hrcvq lpayt hgkdh ojsxh  
vrqfy eucnx wcpkr deowb davbd  
myeoi avpwp nwoig jtqkt ivioc  
wmhhf xtlbc sckyt dfsao ublll  
ogpmd raerc geqcu gbwzy gcevu  
osmfg gkcfa flziw mqhgh hzjlj  
zvbvw xjnmc lu

Crib (German):

JVEESENMAYERJVEESENMAYERJ  
EUCHHRCVQLPAYTHGKDHOSXHV

Reflector: ?

Rotors: ? ? II (left and middle rotor unknown)

e.

ciphertext:

dytzh yderl ftgfb jinlv wfxsv  
srzdd oqtbc igriu kyffx ksipw  
hdijc ckllo pbhlu bqeio pccep  
wmnfh zprel ecghn qarvf qjedg  
zcwax miaui wpupo tqxjf ubmod  
schqv soxyn ampch brqdd nswqi  
tehsm gqsjp toyfs agbex cwnfl  
virgg tjkxz jstsk wujzd ufgfd  
elkdc jmqmh gzngb pyzxl vznzq  
nwckd fbmel saula cirln wbyle  
fjqtm nbkki bmanu pmcwx evjzo  
gxqds wayfg acgkg srkpj srlol  
rhzet ycnpn azzfh escln qjgyr

Crib (German, somewhere near the end of the message):

GENXJHEINRICIJHEINRICIJ

Reflector: B

Rotors: unknown

## 2. Simple menu with MWTO (middle wheel turnover)

The first 5 letters (Buchstabenkennggruppe) in each message will be discarded and are not to be decrypted! Their only purpose is to identify the daily key that has been used for the encryption.

a.

1541 = 2tle = 1tl = 250 = tdh aea =

idalv stfdx dmbdl ekczw qrtlt  
mfpsi xbgaw ekapn jjofy jkasc  
lelmz dewaf xdfiy chllh krqlg  
qgxly temld pevqu bqlyt xkixl  
bzytg jrctdi lshka dwvcj qfrqx  
duifb lbyzd uoibe lnwib kkfnp  
yegqk ofqev shfsy cpebq dgksb  
piafv htxtp wgqah swigk nxztr  
pkcrd lztfw cngfe djbhl zinie  
mfqov bpryb ozvxx opssk stkyi

1555 = 2tle = 2tl = 184 = yod zgj =

ixwvo tdsgk tvmtv bznkl vfpou  
dattu kddyq pskis xnutm zitvh  
qeaidegquw ujciq fbilc qtrrs  
kvgss awzta ymacf igobp reubm  
uxyqj mvyqd zrdje bubki kcyrh  
jgdrn webxd fxing lefhp sfej  
bckoq tvapa rslgg qhpbf ysfpe  
vhtoc qyzo

crib (German):

	mwto	
LUFTUNTERS		TUETZUNGSMISSIONEN
JGDRNWEBXD		FXINGLEFHPSFEJDBCK

Reflector: B

Rotors: II III IV

**b.**

ciphertext:

1031 = 2tle = 1tl = 250 = izp rfh =

vmopn vljta zjqvf pchog ejrno  
hyfmp vpfsp skvwy nfgnf zihwp  
sppzl zhomc gjkec gnrln nivsq  
svxno agddh bzmfv huxqq txtmj  
xixzh bwoxl ewyqh whyrz cjljv  
ucynl msuib dripr scbaw xpyhp  
wawxi ikhmg ilasy xxcgx kcnud  
mdysw rizqh ytofx pjgyn jwuvg  
zyluo vlsdo vezyo blmty zlzhs  
addry hfvwl xavwk twfwh xqbzk

1045 = 2tle = 2tl = 60 = tk1 ccz =

dqkxp mzejm fjqwn gvbtfc lcukz  
cmxcw txeho zaaio mjexc fxjox  
hewca pmqgo

Crib (German):

LUFTSQUAQ TUMENGLAND  
EJRNOHYFM PVPFSPSKVW

Reflector: C  
Rotors: III V IV

**c.**

Ciphertext:

1430 = 1pti = 1pt = 250 = iph xeh =

eefsn dmtez afpxl zbwaz xvbtm  
ywg vz yrwmc nivbr kjloi ayraf  
jbvau uvepy dnldp xbagy nsgoj  
xbexc jpvnj gfvma lyrsf kulof  
ptagh hpwcb xzjmv qjjhm issog  
iyjlu yjxwy nduim kkxrz boygf  
bpvvi jeccm bsjpk xqltv snved  
dcwdl rimtn qkksd wqyst kdeet  
cyqpk fscgk gowyh spcph wcrfn  
ujbhp vvgas dikow gyzwu getew

Crib (Romanian):

COMUNICATIILEARMATEI  
YRWMCNIVBRKJLOIAYRAF

There is an unknown mwto in the crib!

Reflector: B

Rotors: ? ? 3 (left and middle rotor unknown)

d.

1351 = 4tle = 1tl = 250 = mly spv =

qqjul ytoit ghewg xgjrp sfcfd  
kwaeb vyfep jbvnd jvxn1 tgech  
ejeor mfbfc idtdi omrzi qyoii  
ypdkq qkohn pifkl ciuco aepqp  
xdtrq yplyl ladtu mkvkv hjxok  
jxesq mojxv rwggm gtsxr fxwmc  
ofebq foril mubku ujuyj yiuiy  
dview uyecu vqaot tvyfn zwyvn  
xspdr stgam jlhrf eydoh qphrv  
hylcx bkjzu mvyew viumk gzbb

1403 = 4tle = 2tl = 250 = tve mjw =

fpahl eaivq crmc r iemio fdbfi  
bzolr wthwt lngbl yvojo nnpaq  
vegym kxjnf ogiwe lximi ghqbi  
xzzoh hophz xudyp uotle xguho  
znoyy pqiaz qdivn mnzis ttfsg  
gusbb ijguy ikepb qryri ajjfx  
fpfej txdur uvatx qrwky lnwys  
vmkzo ecgmr vjibs hdmpk trtlz  
chzpu lsfvn maikn ncjsw nchic  
hvsuu auhub bpvad hhfqu ruvxx

1415 = 4tle = 3tl = 250 = meu zqo =

piavi wxwwz yordd kevv1 zclkd  
pieaj jbosm njgbu dbaxf okefb  
qnnsr meptz bbrdx iwjmn ywcob  
zmavg xemqc uimdl znbzt thrso

nooja wkmiu tldye jzdwu ulisu  
rjfdw svozg onoma mmwiy xaozs  
ypukc jdcvv wjtyv dqynm qhknx  
hnlyo zxnzl hxcpk brjkt unrmz  
addzt rodza vsfox kfxkf idqwn  
ufqiu lyruo kctoh fqjfg iovvu

1421 = 4tle = 4tl = 143 = uhf vgz =

ckusx ozmph fneqq dtnjy qiwfz  
pcimw dhhbd zenqk ggqqp ajtzq  
vstpy cmkdr kylzr javgu jnzck  
hytta ktxko fxelh ljbnc hulna  
etsfd lnyew syucj mhxji jwjbk  
jwezr hzjks xsvuv jvp

Crib (German):

REGIAAERONAUTICA  
BQNNRMEPTZBBRDX - mwto unknown

Reflector: B  
Rotors: unkown

e.

1900 = 3tle = 1tl = 250 = beb rat =

uqhuu evhkf nxazw rwhil nbhby  
rwkzn vlpkh eyggx qtbjj zjnjo  
mjxmg zakxr oqpzb istuf otdf  
nbhmk ncdjd mgrsw bxzwh yygvo  
lbvla jgafe qdyjf uyrmt rqidp  
mxlkl dohdc evhmo bnorz mhxqu  
iyjzt wiflz gpovo yaozz swreh  
ygyfa lpvyt cvawp prrnb olpbh  
rhhng fxqxs vwijy sokfa xpxby  
udjto tuuua nbvui agosg pfxwm

1913 = 3tle = 2tl = 250 = vzc qag =

szuna wsxww zcmnz pzvsf gkmqp  
ghwol pajzv wjpey flzhg bqlcw  
iwaoi lfugc jjbeh qyowt ictpp  
cyour rgpxx vulpj glwvl pzrrz  
kgmpf ruify cgng iypkb yfpfk  
eudhq mycuy rbzdw vsoup ujdmo

jkogb xsgkw unhka zldeg zcuif  
jthuc kyobp ytpmw rqrvp gtkur  
xowvj bvkcz jftfm xsgjy fkyef  
vdcny rrdmv yqgoq farho qpzdn

1924 = 3tle = 3tl = 215 = fzk pwm =

arrru bgidm fniqv zliqp uwlwf  
cnfmg pprtz gbtyn yhrick nnfkb  
mwccw xvoal grhzw mpnje ufwpz  
dqoxv vgide ephfd dsdsk ycnzs  
chqba bfegf dmkrl fsykg rjfgy  
hzghs sgsoh jcpyy wrnkn ahcys  
nrcvx dukcg dvpvg fabpd qianw  
bfenc ceiwf ttfkz mkvrk lxymy  
rfmes abiyv nlvrk

crib (German):

XCHURCHILLXCHURCHILLX (somewhere near the beginning of 1tl)  
Reflectors and rotors: unknown



### 3. Unknown crib position, menu and mwto

The first 5 letters (Buchstabenkennggruppe) in each message will be discarded and are not to be decrypted! Their only purpose is to identify the daily key that has been used for the encryption.

All messages have been encrypted using reflector B.

a.

1216 = 1tle = 1tl = 240 = qtd hnh =

cuufb lyqsv flpqz kqppz tmdqv  
jlwih hvqjz ugfsr oqmmu vjupx  
meohs dplaf ewzxp fbkzl ayscy  
sffds zmyeu agzip drthg lwedb  
kbqxj ykcbn qjjwc zbzhk gfeft  
cdqom euemu qtfry sbuub gkfxq  
ditkb dnwbz kmsmh vscxs fdzun  
khpwx kzxml enqmn jqmnq apdlc  
jwpmt utaex qhsyp ivtjv tclls  
dtjzbz cwiyk qgzns

crib (English):

SOLVINGENIGMAMESSAGESIS - crib is somewhere in the middle of the message

b.

1600 = 1pti = 1pte = 145 = ofw emm =

rlhev xudjm brjnz rahye vdjif  
tqsby uhkcs mpqxb yetpd njqbp  
oyhht ecmcy epoeg awsop spiqi  
tbkbh fsjdc chanr dpqag cyxvq  
vvzxc hqyvf zzptp centx bjhuw  
wchom qgtuo gyjah gtiqi

crib clue: Apparently something is unusual in this message.

2009 = 3pti = 1pte = 216 = yxt ywl =

aghev aukqf zlvti vlkpo xqjmm  
vcynq ldcdz bgbjm kskbu lnmid  
ecqgy xwcrh pocjk njovj mxcfu  
ukant eiumk rrrfs damps mixsc  
aslab asfcw tkpsx wvzdn ejtjt  
bakrn lbmqc ovfid pbxbg apqde  
pvayo fsndu uigmv txqtb jqstq  
rqvii sfalj upyjg pgvel rfhcl  
mvaem vyhog nwtac j

2022 = 3pti = 2pte = 250 = izl gx0 =

wetlk cgqfp sxysr xvtdh xkomu  
aatot wqmxg grgcj gykfp ncwna  
kfuno kdzwf nwnay jphpk gkhje  
dmggf rdntn ybicq ztnla jdjqe  
ebgxi shojc vnkfc moebw dccgo  
khfve pbldy kvsuc yysde rxxoe  
skdjt rsnlg fgeho unwum yenhb  
tmalp hkfae hwosy tpayc tkzof  
kjsxst paumo knrld sfxru rkyqn  
zsbgr gqln0 gclbj wcrtx uaish

2035 = 3pti = 3pte = 156 = oqp kyr =

okhev veeof tfgbq sjwvr dopyr  
pqaxr plvyf woxen cbcde lkoho  
csazc mfdwf iootg qzxef hpimz  
hkzwg lmxtd dejmn fzjug wshfo  
jkphn bwtqo srfdp iijlw mfglg  
bnqni fwqik arrko wjkzr iyfpt  
uindq n

c.

1819 = 1tle = 1tl = 250 = els cbu =

fmcvn hmclx mfbia jkzzf wcjuz  
gsmuc qhzzq junii oiavw hswmb  
dmcuv csneh cijvx bdbvy gfdws  
eojbx upshp erfuk gwknh viwhb  
duhcg hhaok xnevd cewpc dimeh  
vvqhq jojwh qayor iltzz nplik  
pemhd raryn mvold bvcyd ajdvy  
gbprk zbngt vzouj mbgtj pcoig  
icthg ngkiu aoiij vzqpl tjozy  
jozbn tjurl yizmo brofu yvjlm

crib (German) clue: From our sources, there is an ongoing operation, carried out by the Jerries, to counterfeit the British and American currency. Let's see if we can find what they are talking about.

d.

It seems that these two successive messages have been encrypted with a Kriegsmarine M3 Enigma. The first and the last two 4-letter groups (message indicator) of each message are to be discarded when deciphering!

BDU 0942/16/113 62

jcah qfug njfq gnuv aptx lfve rcjj ottf aaqk uoa  
iiha eire dmog bhyu kfuv auhx ydcc eoko kmy ppxc  
ypdr rjvj ggkd wwwp uvuj hrqi sgzd yxgg mxtj lbdq  
qxrk drww arkd ijmh ppef dfxm ochu yfox oinb wtmw  
vsqi vmah hpqf rjaf lhku nmyf ksyu nwy lhtky nday  
peet fhsd ohbf newv jqbj hnk l nrrs qmsw hdxk mqp  
jcah qfug

Crib (German): JKODORJKODORJ  
EETFHSDOHBFNE

BDU 0958/16/114 29

cbxf kpgn ryoy ahpu hwnz ddhx pfnl oowz svpw aish  
vltr kywf hqmk lkty rcle njmr oyna xfli rsan domj  
ahtd mngs kdob xqzu ttte kcbk ksfd cbxf kpgn

Crib clue: From the intel captured from the enemy, we know that the Grundstellung for today is JSB and we also have a small fragment of the bigram table, which tells us that KP corresponds to RW.

Reflector: B  
Rotors: unknown

e.

Two more messages encrypted with the Enigma M3. The first and the last two 4-letter groups (message indicator) of each message are to be discarded when deciphering!

BDU 1239/24/201 208

dcck lsgr qjwb vgoc gszg ypui qwhg pewa nidt slie  
ofak vtiq xoly oixs ntct xsbm btvq dexz ackt ebsy  
lwen glbv gcpb hhpi qios bpda timn zcer bnnu mxpn  
fnax gccw kgew fvbv kbwe exve gjni mkhv opaa uytu  
ljqx coju qpxm fogb rsmj iwmc kyww qhhr osjo hchw  
dcck lsgr

Crib (German):

ANGRIFFENRAUMGEBIET  
XZACKTEBSYLWENGLBVG

Reflector: B

BDU 1403/24/202 64

rrqa cnmg wkrs gsdo dgvb kdxh cist plqf oced droi  
vcly rytm vcqp sshq rrqa cnmg

Crib clue: Maybe the message is sent from the same place and refers to the guy in the first message.

4.

These messages have all been encrypted with the Enigma M4. The first and the last two 4-letter groups (message indicator) of each message are to be discarded when deciphering!

a.

bdu de kxr 1703/31/75 62

akhl tuud dlit gxou wuqm ecay xumw uhle dyfr lfxu  
cfrj yjba horq dhas qsld agrf kbcv xoow xing zitg  
vxss khld zmct gcxz kkbe pldy vnsk aslz eabb joud  
gvka bdgw qwpv kklq gqfs olus jthe nidy wfar ikzn  
vcsx qyet shjw fpzc tlvh kwvw gweh egra fyvx jqxj  
bgjf dlqz lxmj qshs akup ndqo tqab ojdl parh lvvl  
akhl tuud

Clue: From the bigram table, we know that ak=st, hl=ej, tu=zp and ud=vl.

bdu de kxr 1724/31/77 58

fvek imrr rgrx agdo odpi ynxz bprm kbwf ykwc navq  
tkfa fydo sbmx rplv xnpd rsaa teck qbzb oewp krrb  
sgfz ohhv alel clkv kvlf dtgr wums yxkw dmzy cbjf  
qyja flnp vn timer jevi cifj gcsn ckdo mqxo ohaz ckzt  
wklq lkpu hjyd qcng nbdh dsch dlxg ufwb qxei adcv  
lczg xqyg nplv zqnf hqro vile fvek imrr

Crib: KENNGRUPPENHEFT  
VNHHJEVICIFJGCS

Reflector and rotors: Bthin β VII IV I

Mwto: unknown

b.

peb de hem 0925/4/62 42

tblq cvmz nxxr rkbe pyyw zokr pomm zhif tisu ayiv  
umnx xfgg cgwl fqhk qcdl jwhs mwhk alth dkrs webo  
zlnz yzvk dknc isgo ylyy anpw wxev dpur xrfy wjro  
psuh eqzw dnvv rblc ioxn pqkt xxwb gdcv oirm kevp  
tblq cvmz

crib: EINSNULSMN      AQOPXYYGEBIET  
      XRFYWJROPS      UHEQZWDNVVRBL

Reflector and rotors: unknown

Clue: Intel says the fast rotor could be II, and, from a piece of burnt paper, recovered yesterday, we know two of the plugs that were used: FS and YN.

C.

ßß  
cyj  
iced dkdf rivl  
oew  
cyj

This message was encoded with the Short Signal Book (Kurzsinalheft). From yesterday's decrypts, we know that U-190 signaled its position in the vicinity of our convoy (codename CK with 32 ships). So this might be our way into today's key. Our best guess is that this message looks like:

GELEITZUG 30-40 DAMPFER. Quadrat AK 62 41. U-190.

A few months ago, we have captured their Short Signal Book (Kurzsinalheft), the 4-Letter Groups Book (Buchgruppenheft) and the Number Table (Schlüsselzahlentafel).

First, we encode the message with the Short Signal Book:

GELEITZUG 30-40 DAMPFER = 8985  
Quadrat AK 62 = 4276  
41 = 4293

We add to the encoded message a key from the Number Table (Schlüsselzahlentafel), without carry:

8985 4276 4293 +  
3551 4198 4375  
-----  
1436 8364 8568

Then we translate the result with the Buchgruppenheft into four-letter groups:

1436 = QDWK  
8364 = ECKI  
8568 = YRAY

Finally, we add the codename for U-190:

U-190 = UOI

So, we guess that we have the following crib:

QD WKECKIYRAYUOI  
IC EDDKDFRIVLOEW

This will hopefully help us get the key for today!...

Crib clue: From our intel, we know that two of the plugs are OY and WE. From our analysis, it's highly possible that the reflector for today is C thin, and the fast rotor is III.

d.

Soon to come!

e.

dgb de bdu 1004/7/311 62

dbrv buia hhob bhve arna xzyf dxfh izfa fjrp foet  
anvc ebyg ggph bias blgp ukvg tzpp rybc edte yzaf  
lwnb nieb ngpx xfdv mytj boqa fuya jtvp hhbz cgdd  
rtqm pajb vaks qzfv wtex vykq pvbl fymh gatz yygp  
lplj lcdr tfzt atuv tpqd utcq arfb hguz azlm lqty  
tbjz pktn mfxw nsxf ecqm dqix dhzz gjgs sojz pdzh  
dbrv buia

Crib clue: Our best guess is that we might have AAA=====VVVBDUUUXX in the beginning of the message, but we don't know to whom this message was intended, so we have 7 missing letters between AAA and VVV. This month the Germans only used the reflector Bthin.

5.

a.

Two hours ago, our HF/DF located a U-boat transmission from Square CE 8128. After we encode this location with the Short Signal, the Number Table and translate it into 4-letter groups, we get BMMB KOTH.

It seems that a flaw in their cipher machine gives us a good start for a crib. We don't know what the first four letters might stand for, but, maybe, if we can figure out this U-boat's 3-letter codename, we will be able to get the key for today. This month the Germans only used reflector B and extra-rotor  $\beta$ . From the fragments of papers recovered from a sinking U-boat, a few days ago, we have reasons to believe that the letters L and O have remained unsteckered, and that the plugs IM and CB have been used.

$\beta\beta$   
    acu  
afkh mbl1 bwrx  
    wow  
    acu

Half an hour ago, our Y stations intercepted the following message:

bzj de bdu 0225/9/235 15

bnzn ydwq gssy xvpk zfeg lswg vrhs oalt amju cayu  
oabe tlxf nlpf bnzn ydwq

b.

This morning, November 12, 1944, our Y station in Cheadle, Staffordshire, intercepted a message with bearing 22.10 °, Norway. Hut 8 immediately received the request, coming directly from Air Vice Marshal Sir Ralph Cochrane, to give it absolute priority. Maybe this message was sent to the 9. Staffel of JG 5 at Bardufoss airfield. Due to unfavorable radio propagation conditions, there are some garbled letters.

ocg de jrg 0821/12/185 26

abnx lqol gben qahg phbd utdz us=i qzlb ncvx rlf  
m=as scfx nxld cngy mexp jezj stgc ==yh xcnl yub=  
xyir jtpi dyep bvlv abnx lqol



c.

Yesterday, one of the Nazi agents just turned himself to the authorities immediately after reaching British shore. His story is that he had tricked the Jerries into believing he would spy for them, just to reach England. He says he knows another Abwehr agent that had boarded a U-boat, leaving Kiel. Since their mission was connected, they both share the same OTPs. He also told us that the radio codename of the Abwehr agent is ULJM. He mentioned that somewhere in the beginning of the message, the words FUR ABWEHR OFFIZIER might appear. This morning, our Y stations have intercepted a U-boat message, with a very peculiar addressing form. The first 4 letters in the OTP key - utmj - serve only as an indicator and will not be used for deciphering. Let's check if we can decrypt this one, to find the Enigma keys for today and verify the story.

gfe de vts de uljm 14/0909/36 44

kumo fmyk jebo itiz aojm uppa qujk mrfo wrpx fvry  
beeb bfma xklf tudz ohgw cppi hrpe xcvd npcs tasa  
fhzd anjb gudo kyof ytdj uusl rewy ieyj korz dcop  
eyko pvfp tmlz nbqv ufro hbpt rfah qmhq pobu xuei  
hhav xaok kumo fmyk

OTP:

utmj cjno eaic hufn zqfe oyja byvh csvz xsji nkjb  
ujyj reyg ulvx ejwi zwpe rizz rlvq fgze agqh mtvp  
uqgw ruxu lazh qgar buuk snms ldcp byfe tefa dboh

d.

A Soviet 6,000-tonner has just been reported being sunk with two hits, near Norway. Let's see whether the Jerries have just announced another petty victory, after so many days without results. If so, they've made another mistake that could help us read their traffic today.

fdu de sje 0920/17/56 32

tmem uhow upqo pkvj hzye jqfs rpzq qtdo ffyj ryoc  
wepm jkbf nykp xgsy mwds wpca bwfk awbm nxmy kkil  
grdt wnhj sqze uidn uiyk eexk hvwg qkfo zdki pplo  
tmem uhow

sje de fdu 0950/17/58 8

ebch dokk etby ftlo smyv hnkp ebch dokk