

WAR DEPARTMENT
OFFICE OF THE CHIEF SIGNAL OFFICER
WASHINGTON

September 18, 1937

MEMORANDUM FOR: Mr. David A. Salmon, Chief of Communications and
Records Division, Department of State.

Pursuant to your informal request I have just completed the study of the degree of cryptographic security afforded by the cipher machine known as the Codatype which has been installed in your division by the International Business Machines Corporation for test and determination as to possible usefulness in State Department communications. The following is a summary report of the results of that study and of the conclusions reached therein:

1. It was agreed between us as a preliminary that it is fair to assume that, in actual service, practical considerations would require that a set of plug-board connections remain the same for a whole day's traffic and that only the two-dial settings controlling the initial point of entry of the three commutators and the initial point of entry of the 12-disc program device assembly be changed from message to message within the day's traffic.

2. In this case an enemy cryptanalytic staff would not know the wiring of the commutators, the positions of the pins on the program device, or the settings of the keying dials. Nevertheless, it can be stated that one day's traffic, if it consisted of say 40 - 50 messages, can be solved, although this solution might require one or two weeks by a well organized cryptanalytic staff. Its purpose would be not so much to learn the contents of these messages as to reconstruct the cam positions on the discs of program device and wiring of the commutators.

3. When the latter data have been obtained, the analysis of messages of any subsequent day's traffic would be particularly easy and could probably be accomplished within 6 - 8 hours. The purpose of this analysis would be merely to eliminate the effects of the daily change in plug-board connections. (The various dial settings are of no particular consequence in this machine.)

4. When the latter effects have been ascertained, individual messages can be read rapidly, though of course not nearly as rapidly as the machine can decipher them.

5. Based upon the foregoing premises, only 12 messages, all enciphered by the same plug-board arrangement but with different dial

settings, were requested for study. It was thought that possibly the cam positions on the program device and the wirings of the commutators were the same as had been found from a previous study of the machine, before the addition of the plug-board. Had this been true, the subsequent study would have required less time, but it was soon noted that at least the cam positions had been changed, if not the wirings of the commutators. Upon request, and in order to conform with the assumptions set forth in Par. 1 above, the cipher equivalents of 9,000 consecutive A's were furnished and from this text the effective cam positions were readily reconstructed. It also developed that the commutator wirings were unchanged and that the internal period for the checking circuit, namely 180 letters, coincided with the external check shown at the end of every 4th line. This indicated that the program device made a complete revolution in 180 letters, whereas before this period was 360.

6. Having the cam positions and the commutator wirings, only one of the 12 messages was selected for detailed study. This was the longest in the set, namely "No. 1130 from Paris August 9, Section One." It contains 9 periods of 180 letters. Applying the principles of solution devised to meet the situation, the plain-text of the first period was recovered and is attached hereto. In this process, some time was lost because of unfamiliarity with necessary procedure. This is always to be expected of an initial solution, but it can now be stated definitely that a second trial would undoubtedly yield solution of such a first period within the time indicated in Par. 2 above. This is hardly sufficient for confidential or secret messages.

7. The following conclusions seem warranted:

a. As regards its mechanico-electrical functioning, the machine appears to be highly reliable, speedy, and efficient.

b. The degree of cryptographic security afforded by the machine is relatively low, and certainly not sufficient for governmental confidential or secret messages.

c. The cryptographic principle upon which this machine is based is quite weak. In a final analysis it consists of but three primary mixed, reciprocal sequences. It is true that these sequences are brought into play in an irregular manner for an irregular number of sequent letters, and that the complete period is 19,000 letters. But this period is a resultant period; it is relatively very short compared as cryptographic periods go; and even then it is composed of but 18 different types of primary periods of only 180 letters each. The fact that there are two dial settings for each message, one with 25 different positions and the other with 50, is of no serious consequence from a cryptanalytic viewpoint.

d. It is doubtful whether anything can be done to eliminate the more or less fatal cryptographic weakness of this model and still retain a machine and cryptographic system which will be practical for the purpose for which intended.

William F. Friedman,
Principal Cryptanalyst.

ERYJERHPYRDYXGUDXBGVJJOJKGARLF	A
1112222222233333222211113333	1
AAABCCOCCDEEEFFFGHHIIJJJKKLLMM	2
REFERENCE-EMBASSYS-ELEVEN-FOUR	

KFFOBIGDAZLCTLMWMOUYRHVQXJVWUW	A
3222223333111112222211111111	1
MNNNOOOPP PRRRSSSTTUUVVWXXXY	2
TEEN-AUGUST-FOUR-EIGHT-PM-THE	

LTMPVDNIOPNYAZYAZYZEXGPGWKOLID	A
13333311111333333333222221111	1
YYYZZZZZZZZZAAAAAABBCCOCCOCCDDDD	2
FOLLOWING-IS-AN-ANALYSIS-OF-TH	

CRGZDACTFMZVGXODATFAZNIOGOKEYM	A
12222233332222222222111113333	1
DEEEEEFFFFFGGGGHHHHIIJJKKKKKKKL	2
E-FRENCH-OFFER-OF-AUGUST-THIRD	

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
322222222223333311111222221111	1
LLLMNNNOOOPP PRRSSSTTTTTTTT	2
-PREPARED-BY-THE-ACTING-COMMER	

JBTNZTHHYWTATEZTMCPSKQLPRVWZAY	A
13333311111111133333222221111	1
UUUUUUUVVVVVVVWWWWWWWXXXXXYZZZ	2
CIAL-ATTACHE-AT-MY-REQUEST-PAR	

A 0 1 2 3 4 5 6 7 8 9 10

(14)

6 pencils

NO. 1130 FROM PARIS AUGUST 9 SECTION TWO.

38 NVOVU CEDNV NKIWI VUXSE LLAOD RDJDB SMXOR WJJQH WLPHO
 39 PSKPU BNIHE WOAIM XFPKG ZBZGB NRNTG MROTO ATAMM TYRGP
 40 VLTCE XRPKI OAORZ FYBRN FWFSY JRLLS DCGYM UGTAI HFUAO
 41 HVOJX KDI TN HXRHG FDGYU TUSFP VPLHL NRVUP RELPE HCUKE.
 42 ³³ SFEJO GDCIN ZQWZR APCDM UOBIL XBEMI RDAEF GUFSSZ JKTFSS
 43 JVXSV ZEXDK ZPXVT HKVKW ISBCN MUPNU LZXHH CDMTX DIVMU
 44 GKLWF LTFUD PZYNI MABST SINCL GFRZL QCSME JKLOU AIBDZ
 45 ZDMGO LWNOE PABVX FUBVF UBDGR KZP⁶⁵UV BDTFW PIUUX ERWOG.
 46 - BZKWY CWHZH DOCVJ OKBKW GCLJF ZRFAH ARKFS WOU EG YGTZN
 47 DZUNJ BFKOI HCIZB NDTAR VTMHR LHTVZ BLZGW NSXOL XVWGJ
 48 SDZVC VBKFG DWLOF JTRWR FLIYF SOBZF YGVLJ JRZIG LEZIK
 49 PJAHL ASMAO PKOJD FRNWZ YCFKM FRCOB XTWFV IIPVE HYHZL.
 50 HBVIC LND OY ZWGVU LWKTR GJERO GIVSY JLAJW ZLSGG OXENL
 51 JXDSF OKSPE HCDTJ TGGIE VLXLL ZZPVH TRRTZ EMXAP VLMYD
 52 CAECT SNBXA PCKZB SATHS WDMWR JKTLO XWDRD CPCNY MZFGT
 53 ³⁴ SHXZJ GYCLR PULXO LZGVZ IRPCD FMLHS TIMMO OBABR TMEIH.
 54 UDUOK XSXLU ZEOLT KPJMG WMVSJ WDEWI WXDEF RBYPK DBQXD
 55 OUXDG EUGCP FPFUD ⁶² OVBDC FWPCA CUDWA GPEEC XTFKL ZRJTJ
 56 ONCYZ EXLTK DAYPV NCCMK PMTOR YLENK JVDUS MLYJT LTUMR
 57 PNUOH WHITN CBRHP AHS AW RUF CZ JIIUP MDJFX RIJZM NLJHA.
 58 KJBWW CXIDJ ONCRW NCRDJ NUYNW RRGXD AHOMO LOBGZ OGESA
 59 XOXFS WFRLT YCHBB RXGRL VTEHD BKOAB SUZUW DTBDS XQLXH
 60 YOWKE MSPAH XDLBR UBR RJ

(12)

10 p. 10/10

NO. 1130 FROM PARIS AUGUST 9, SECTION FOUR.

61 GVENO SWSYF SLWMC NVMLG LBAZP IHPLY FPCZI KJYML SBSRO
 62 ISDRV XWJJY TZXCZ MLHWV NZBAG SVDFA SIOVD BMCAH MKXWF
 63 GHOUV OWVMO VHRBW EXJUP JSUVG CKGJS ZJVLM GAYNA IXMMT
 64 IAJNG SLPRL YBAZP SGSUG IVNTD FWXBF YCVJI DFZRD FHPON.
 65 XVNYE AFWAB TZBWW EUCLM PTEGZ AYVJP VLGXJ MXOPO UHWUG
 66 WRDIL HEWFO ATZBN BNYJF WLTCG UGFND DMJLW KAZKL ATDLH
 67 QEYZB SMZFK GLNRI NLGIO CKLTZ QOBLR VXGFW BVJZC TPPAH
 68 KPYAH VANUM VRDJW HLILI DNDFG CKHEG EPPGY YYWBZ RDFGE.
 69 - VAEMI GRVIU TWJNU AEFIL SHTSM BPLRV JZDJG VYBWO XKNXC
 70 SUXNA KCRAF NHMDC VDXBO HTRIM XBTVB YONYO YFGEH YHTXO
 71 FGPNE FLYFF CFXKS FVTHK LESDZ JFEFX SATNK WLOIT OGLZW
 72 KTOHT OVRBD ZWJXT XCIZY IDZMO GVYGI HCGWU TDJBU DKEIG.
 73 HAIYS TGIUT RBHSR WONGZ CDKLU ORYXR LNZOX ETTGD ERSDA
 74 HYBWR WHJTH WEPAB YUVNJ HYOWL ZFAZA IBFYT MYAQZ JGJKA
 75 USEVJ ZFVMP SMXMN ECQPG MGCNE ZMWZK ELHJT BSNOZ DYPCB
 76 AIOKN ACVBD JWDES RWWAF SFROZ KFHTR FKNEG XGNMH JBSIG.
 77 - SIOLG SMTDR MDXXM IUTLH KAJSZ BRHHP NIUHM MPUKM AZIRV
 78 WVCMR SCYUH XJIZI FLRVT FIADX FVITN TEIAG NNPGW GOEDB
 79 DBLLF IZBSM BVREY ORNLG JPMON FZFKT AWESP ZJGJB LGCVS
 80 TBSPT ZCULG PZNOR WXJWH GYBFS JXEGJ FRGPN FHTWH CTXGT.
 81 MSDLK ZCGJZ RPHRU XSFT JYLUH TDELN NURVR WDJTF WJYRA
 82 IWPAH WDWMD UHXBY VZVRT YMHKM PCIXH BTDBI GMIIX HSYVM
 83 NJNKC JBINZ SDFCP MYFKS PYEPJ ECZLC PZBYT EPXZC OGBAZ
 84 FDIYD IYZOP JFSZM PGDMG BPZYH EYUVZ OZZYE FGDZR NJVOH.

① 85 HXWVN SZZTH URSJU FLXGD IUNDZ WDLMX RVOOH TJYGG EFSBA
 86 NWZNH CTYLC YDBZB MIIER VYSLG⁷ UGT¹³XG TMOAF KBGCK GRMKQ
 87 FBZLR YNVOM BGAHL NBDCE FPGHI CXGKY TVYDE FWIWF MIPLR
 88 GDPZY TGZKN RVAGK OMKDE CLJAL ZTOCM WDJZG IFZRD GOSIN.
 89 GBHFS AIAXU NTKSB MHNSB JIGFM KOTOP JWGJF OXAPY WTNJG
 90 IXSFO LS YRF MGJDG OBFRE IECJW GLSBG ABGJG BVYYV JHSBC
 91 ZNTNO SQESK SXORX AOCRM RVHED MMTZT YJRTF CNODT RCCJP
 92 TLKYH LULIB OGVWJ VNAAAY XNDTK CSRCH FHMF B DNONZ HGOZR.
 ⑬ 93 MSRNE ESALH ZZIRA GKASI FNSCO YPPXB CJMVJ LXNPJ OBPJV
 94 PDAPA PMTIZ DSSTJ WZLDW FCGEU KNZTB PALIW JFIHG XUWNU
 95 FAFZP JOTBI DBXSD BBYFU CDXLD CMRYW CSREO PQXEM SCCTV
 96 BNVRK VZPAX ONXMN GJGIW MPIWL VZCLS YAFUG ZGEVF IJPOM.
 97 NHZWL CBKTY PJYYC LDCBE LBCTI BCIZH IWTWM BGUKM VBRDY
 98 MAHCD RERYX OAZOT BTNOW RXJUK GDWYA WAETS UTLUH MNWOP
 99 IWITZ PBXBS CDPNP HWNOL PEV FY JJHTX DUVVX

NO. 387 TO PARIS JULY 29.

⁵ UOEDC ¹⁰ AKMWA ¹⁵ ZMARS ²⁰ RHWBF ²⁵ AIHEK ³⁰ WRFLN ³⁵ LXTOZ ⁴⁰ OHVWI ⁴⁵ SGVBH
 BKKBE THBIW UF'BUI RDXNH UKYWN XZSOY ZOVXS BVMVP VCGMG⁹⁰
 IZYAE UKDFF NSVTR ECNLF YIERN ATOLA¹²⁰ JMEHF¹²⁵ XHJXK¹³⁰ CHTTB¹³⁵
 DZGWH ETXAB GVKHJ ZKWMI VFZOV RCCZX SHHCT KAUTY OVITE.
 LKJVC PBWOO HWERE IUYHR XEWIN XRWBI FMUNA KBRWF TUPED
 SVCDJ EYZCG ZNBUO DTVMP GDXOA SPYWC LKDXI OSYKG KSMUY
 JRGJK GSF EW EYVJV KADUT TOEYO MATEC OEVUH TECGT ZXASB
 FMBLW CUFUI WBXVI JNFIR UYUKO LBEEG HGWKI SZHXX ZZAUT.
 SLIPP SSHZR NNDLL NDPHK PNBOV FEWMR DUTLU WMBZS VXXWD
 ZZXYB NCDKN HURSO GVJHP ZNSDJ IKHAM WULZN BTAXP TLSVA
 LWHVJ KXREK NSNCW RASYA WHIZN DSYZT RFLZX LJMGV UACVA
 IFWGM WTYRL SAPBM AWHSF JSUNR SWPCO

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TO THE AMERICAN CONSUL PARIS JULY 29, 6 P.M.

UOECT EWRMH BDXMK RDZYC PBNYT UDRVM EVRAA GXMHR HVIUU
YFOTE AIREP NKEUT HMTIS FFKXM YHTRE WIBPA KHZGE GFBL5
JNFKH BKHVH BRGJH UAXBG FCYWF GNDKY RTOWB JXTMG LCUVF
UHGBW SXPUR PRWJH UJCHN DLXXG UYNJV LBGSY MHZCO WDOPK.
KJORJ XYKAX KDOFI MLKML NUOSK PPYVG DDYSO CCHXW AYHUI
DVZBN TFXKS FJNLO TXBII UTEMZ DGTWX VBBOT CASOV IVGXY
NPIZT ERGLP STKNX JLUYK XTLLD ZWOLN QRHJE YNYXD VYRBO
MPOUZ GBFCL FTXBC BMHPL FBZSN FZNEH DTVGM KDDIJ HREWT.
KXDUO ADRW VECDC NGDWO WYAXV VLAEV KMMPF OYCKA ICRDJ
KDZZE PFVEC EBTZR YWVJC DDJKL NUDAR WOMMK VBTZI MSGZW
PRKLS SVUEE WCNFV CYDFE VFSAC GDSVS NFECK JABLH AADSK
EJFMF ZTHYX MVWXD XVTIG CHHME TFXNC HTYZD VJWKF BSZEZ.
XORCK ILPYF LFWVH HDMHU ISZGG TTNSL NWCJG RSKNU JNBBH
UTAIH DZXKN UEAMH EVESG JXAPR JHJLG VYLPW WBCLP AVPAE
STSKH GFWGF ELHFZ VFGWF YJGBO RHGTU OGHZU OWSUT BCIAW
HNBSR YJIUL HRXPW DPCTN JYIMO SCIWP LKNVH MTZLY ZCKUT.
FYGPO APKDN CAMBL JVHFJ MCPXU LRVGC JSTJU CJYUX YAWGW
YUOMM WRZIQ JSBFC UDBLF LUDTD GZCNJ DSEWJ UOJIZ KWMKS
KDDGF FRMOD JPHDK ERJVA VICTD FBTOT EMRYV

3

NO. 394 TO PARIS JULY 30

UBYSP OZWEU DAIR LIDKW GBXRP EIAZN CRWWH RGOAR WIZLN
EIZKL AFFYW FRXEX DVWAH SACNV DZXHG YLHOM YJKYZ DRBMU
FVWOO NXXNR GMOPJ VOWXU LFPGC WFAVF FMVVK LPKCC RKRNA
PWDEH PBHYD JVERM ATZYN IWJHE WFKTC UBENT GUKKU KAONR.
SHUHJ FGSZJ DEJCF RKPCK GBSLU JIEYB GESFL WDGND GJIVI
FVMMS GSTSM BCTHJ KXDWS BFEKX BICGI ZGABO LLMHO DZHUI
LKZWO VCCEC TAXGL NOMEI VLULG KEJGC ORILV NWBCY SNZDN
GWXZY NFJOK ZMMUB IYAZD OKNPP ULIPA WNCEV TTSXV VSAGM.
HYNNL GYTZB JTVSM ZFCRJ PJNOE KGFMY IHSPA RJMGB GGLFS
WRSDY ABYOF TTAMT HEWBH FWWBY RBNEV XJXDS ZNIWV MNWDD
KLZWS BMIWR OXKRG DIYHI MOPTC MZROX MPOBX MMPTL PKRWN
AVRNR ORJCA MFRYU NGIEL KFOSU FTCDT AGJSC KCFBW UYSPM.
FALZH VUBXO YZZGM RWTMR AALLB PVFRK GOCMW AGZWP BHILH
SLMEA ZPNJK DTHJJ PJHKP EYCDI JVWXR HEOHR LPLSZ LXFHX
DTHM JVFFT ESSXT KREIX OBWLF TAEZF HVNXV FJBNZ EWBFY
CFXFW YBTKY HVGCP RBGAT OUPNL HEJCN NTGXZ PAXLK INXBL.
UFYUI OGMCU TGRMO



NO. 397 TO PARIS AUGUST 2

FKXVF OGRAL VAVFY NESVF SWEE0 LEXBH EOZRF XXPCE LYGCO
GTWRM CLLFJ HFWJE GOKME FHFTY LSNDE UZSEJ NJBGN TPHYU
SICND BNJYU ARMKR IUNMP BKBLM DZSCM EXHNN CYHRJ DVGDC
TCJCL BFWCF KACGI SYWGH SFCIZ LJRKJ IWPWG JYVFR JGYXR.
JVTSR DVOFC NKVYN NJIUG MAXSD IOBXF PCEYA GIPOD MDMZW
FXKGT VOJNR VEVYR MGVIL FJAPW GICWD XGDTH EYRVD WRASK
BFXEU DNUVF ZAUBT LKBFW DIFUK SVOSL CUVXM ASXRC CWUSO
GMEVL MOOHS ENZVP AXVDK XWADP HROOM PLIJD EWRRN CCDCD.
ZKEYM VGMGY BGAZD TZMRB NPSPG CPTMS GUKRW KXXAT BFJTG
LPDPF KKERO LTYSA LBEHK MWGJF UHJCD PPUNT ZMVGU CLNME
XTZND IAABT CNRWV DLRMS VHKIU EFRON KYWDO ZNRCK OPRAX
NATJB JZENM IMCOK XMGMC GBPLR OCRVE MJKDJ TANWZ FCTHY.
KZSKY VFDOT ZHZOI FSM SH KNHOP ZLZUK TUJVR WBWRJ VPAAL
PNAJU HSKOX SXGNB GOYEH MCKZT IRDNB GFIGB ZZGOT AHATR
AYINC DYSKV PAGNS WKNYZ VMLNI GFWKD LXFYL ZLGGZ EOVJL
FCXGO IHXVW PAMBE LUHPT BZBZK LIKNJ PUYAG EWURN YHWOJ.
DEMAP OUWIV WKOBT CUAKM NWTID HGAUX FSRGA XVLVS EMZWK
GOMGX BXLRR WGKAZ AFNHZ YXSFO LPGER OTKTX MMCPS MGHFO
YEUMF DXHSI IURJA HASZU LLBSX OTBNY ASVFA XWNAC WNHMC
IUKWL CSSKB HUKMD SEWMG WOXPB JPASS RBDWR IMLAB JPFTY.
TZIHR CENEX DDVRF JYRFX



NO. 40I TO PARIS AUGUST 2.

LADPX FPTTW UXTPY BGTAG IBYVG OCLTI NLEGV NIEWE KKFRU
IUFpz ERKZF YIYYT PSGOK ZJFBR BSVEF IZFGY GVWZW TIOFN
NUWDK EYMTI GRNAE YHROC BRJOU AOSUU EGPVB GFCBB ZCLYD
DWZYF KTEIJ YOAVC VTMEP XADGG HFBMY AZTYA WKIOH MRNOF.
CTXCT LFPGP MZJLF HOKEH PWCOA ELCAY HCVLL MZSGU RNFRE
GMABH DTBZA UMUWI ZAKAL MZNTA CXDPM KXXMG ZDPLY LUCMZ
DKBKW FRCAM IJCES DJPOR SZRTH KXTJV CGKAY IWTLP AYBBT
KFGWZ KOSCK XONOF USCAX LJHAL GCKXT DZNET WXIRH PIXPJ.
FCYKL XGTJG JWKYA SRJTE JXSWP SYSID YZLNW SKXRW CWBAC
INDOY RKAJS JSKTT

6

NO. 405 TO PARIS AUGUST 3.

GZJUP CLBOY AOVGI PBHRA NDEVI ABSRT BRPVS FUNWK FOYMT
XPRJR HATUG DCSP0 TCVJG KOAIP LXNUL HIBRO WCWPJ FJGYM
LJV DV VKRNA JOE ZT FJVNB LEJUB NYZML NEXUY FKYIO LUFZU
YFILZ FCUDJ LBNGB PLYSA ZULGI OVVG F PYKZP HSDMG PKLAS.
WMXUB RGJWG OWRUA JDFMO UZLJV DRACZ ABBVK KJFNB CJFEM
ZOCZD LOMAI UZGIT JEOVG HMPAT EKTMO VMVRB KNWVJ RMLDL
IOYAY HHUJY VZWPG YBTLG CAYNT ZIDOS HSRJS TWYFA MEXNO
HEFAS UGYAH DWHJW RORBT NKVHE VWXPY HGAUI KNPVC RIPAM.
GWIPS RUWJA HDCND LUXBW YATYX GUFXH FNMMG BMUBM HPKSV
MBZMH VUSHJ LWKTA BDEMW RTWOV JACUE XYDCX AUXRL MJJIW
FGRLP DYDAS YMUCP YCYLI ZSVDI GYNBH KOWTE VWGRV AUOSG

7

NO. 412 TO PARIS AUGUST 5

SFBXA TFDZY KWIGG KYAFA RVSWS HEMUN SJSES UWCCI MRWEG
FZBGV RHPIS XZWCK LKXZI PASFG RNTIU GUZLZ MLLVU LSKTV
EJFVR LNWPD WBLMT NWNVA HCNDZ KXDBS KCRYI TFKUI XRGMC
JYUJR LHLVA ZYNJS TMYWW EDWZF WXLHC SPRLU HEECD CALYR.
BFQGV MYUOD AOHML EUNKI BTOHU XZDPI PARLF CIFLR IHVPI
IKMUL UOSHE PHKEM OIZKU MBVUW HZNVW GCDCW EOLPC LHGJL
VOAEH TFKSJ ZESPJ YBAYR NTQAT OOWXF HYAIA RELMI NVINT
CAKDV PERZT ZDXSL NAJXE WDIMZ SEQFH PZNNY GCVHN CPFUR.
HIDKF JNPET OIOAO CVFXV APAKJ STOYV LIIJH NZHNS HBRBJ
HKXLA OCJLG KWIDG CYAVD YCHIK BJIAE USLAY CYCWV KSTDA
XZYRE FRGIC VBSTI HKYVN HDHCY TVISH UOWOP SVXMS RVSGU
ASCIH BETZN OLCHE YZEAM COEWT UATRY JEKHD XTMAK FMGSX.
UNNSW TTKLT UFZUD ACEUK WGVKM HNDDBR OBBBS

NO. 424 TO PARIS AUGUST II.

CRUAL DCDDT OEDSZ AYTBH KYZTN VBTZS AKMIU UTOOF AMYCK
 EMMIZ GPMDP ZDFXV UONAL RUFKO AFCSY AZNWF LCZDS WPJKR
 UFRFL IADNZ PPMHA HWPFW WHUCH ECKUE NKWGR MUCAE BITMD
 GMLRU FWMVE BUOLX VLZNE TNKEJ MHGPR YNOKR CCJLG HELBU.
 BMLPJ YDBSZ GABJK GRXNP DHWUY YJFKU CHYUS CXMFP VNOOW
 ZDZNH AAMUW GKPYR LSOFV DXOXN SNIYD KIBAH DKJAY IWLEY
 UTFJN GSBNA RAZGT FGFYE IHLUJ CHKFW ESGFR SWFNW FJDMN
 JZBYW GYEED ZNVDN VRYNV XTHOY RKJGU WJVGV CUWXN CKLIP.
 RSMDK VRLOY TJNXI VHFHO UMJZF CUDDZ UIFWJ CZEEN KKAXL
 KZVXA GYDTR GGDMW WPAWN AAHGB JUWJX ORNSN FKRYN MYRWF
 XJVAY VBHKB NSTFP NYCUA NNUBW MCWVH IUXKV EIGDC FNLRE
 IURWH OMDPH KVCWX KPOAT POPFX KZNZB EOTKM FHKBL GTBKP.
 LKFJC ZZJMU AYDYV BNIVF PSYUV CNRNI FGYPX RUNBV SUONI
 MCXHY HOPCW AEMBF KRLNZ JTEHK POGSN HXREF BKKWW

Communication Operations

1) A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
C H A J V U X B M D R W I O N S K P Y F E L G T Z

2) A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
B A J O G V E U R C L K T S D W I N M H F A T X Z

3) A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
R K T S T P J V M G B O I U L F A D C N H X W E Z

Alphabet REF ID: A4127215

ORSE YD

~~L D Y E B O A G H K R F X C N H Z V T J W P M I S~~

Answer 1150

L C Y H B T A W U M R S X D N E Z V O J G P K I F

- Old table
before
S.D.
Test

A 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 A

B 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 B

C 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 C

D 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 D

E 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 E

F 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 F

G 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 G

H 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 H

I 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 I

J 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 J

K 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 K

L 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 L

M 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 M

L C Y H B T A W U M R S X D N E Z V O J G P K I F

N 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 N

O 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 O

P 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 P

R 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 R

S 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 S

T 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 T

U 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 U

V 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 V

W 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 W

X 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 X

Y 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Y

Z 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 Z

L C Y H B T A W U M R S X D N E Z V O J G P K I F

Alphabet 2

REF ID: A4127215

K B J U Y M T X H C A L S W F R E D Z O G I V P N

A 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 A

B 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 B

C 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 C

D 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 D

E 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 E

F 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 F

G 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 G

H 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 H

I 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 I

J 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 J

K 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 K

L 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 L

M 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 M

K B J U Y M T X H C A L S W F R E D Z O G I V P N

N 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 N

O 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 O

P 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 P

R 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 R

S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 S

T 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 T

U 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 U

V 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 V

W 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 W

X 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 X

Y 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Y

Z 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 Z

K B J U Y M T X H C A L S W F R E D Z O G I V P N

Alphabet 2

C R V Y N F K B P U E H A T J S O X I Z M W L D G
 A 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 A
 B 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 B
 C 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 C
 D 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 D
 E 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 E
 F 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 F
 G 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 G
 H 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 H
 I 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 I
 J 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 J
 K 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 K
 L 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 L
 M 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 M
 C R V Y N F K B P U E H A T J S O X I Z M W L D G
 N 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 N
 O 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 O
 P 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 P
 R 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 R
 S 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 S
 T 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 T
 U 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 U
 V 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 V
 W 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 W
 X 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 X
 Y 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Y
 Z 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 1 2 3 4 5 6 Z
 C R V Y N F K B P U E H A T J S O X I Z M W L D G

1 2 3 2 1 3 2 3 1

*Wheel No 1
Block No 1
Alpha 21*

BHBVP	MRWAA	ZCBAX	VFVCS	FNEFU	ZWAYT	NXSHU	ZFBHV	XPVDN
IFISU	PPLY	QUATH	DUANT	TODMA	YREME	NGER	TANDY	QUMAY
YCVTW	FCLWY	JKAZT	HIEGF	UZBDF	YBMOS	YBAZC	EWTXO	CRJUX
NOTPE	R110D	UT1F1	CANMA	KEYOU	THINK	ATHOU	GHTFO	RYOUR
YULSW	FRVEN	SLKTB	PMTXT	FXHCN	JACAM	YJXII	LERTX	VBRE
SELFIC	OMMA	HAVE	NORED	ADDED	TOYOU	RSTAT	UREPE	R10D

MESSAGE NO. 2

Wheel 1123
at start of ph
Block No 3

1 2 3 2 1 3 2 3

CHZLK VKRWY JXJZR UPTIA AMGDY VSSYO GVBUN BUEZT HFTCA
 ① THE AMERICAN PEOPLE COMMA IN COMMON WITH OTHER PEOPLE
 BBIRF XAYCW XRMGG RZEYA PTNNO SZNCS TGKRB GEZMA DHKGJ
 SO FTH EWORK DCOMM AHAVE COMMIA DURING THEY ASTITH ELVEM
 IKLGM EZSSD EMORG WRJAL XWESJ FNZDL FNGRT RANKB JPZUN
 ONTHS COMMA COMET OADR WINDY REALIZ ATION OF THE NECES
 NISFY NYPGF YMIAR KJPSL TWYNM OURRM TJCAE GMHUZ EVIWU
 SITYF DRINT ERNBT IONAL ECONO MICCO OPERA TIONA STHEB
 WDNAJ GEIXK RRWZR UZMVR EIDPG PJNYR JNKFJ LGX
 ESTGU ARANT EEOFP ROSPE RITYA NDPEN CPER 103

MESSAGE NO. 1

- ALPH 1 - Black
- " 2 - Red
- " 3 - Green

Alpha 18
Wheel 2 at start but going into #3
Block #6

Wheel #1

Wheel #3

ORMIS	GBNCH	FLDIX	EODCW	VPADY	NLXIB	JMHIR	SEJDX	FVEAS
ANEKE	CUTIV	WOFAN	EWENG	LANDM	ANUYA	CTURI	NGCOM	PANIC
3	2	5	3	2	5	4	3	4
3	2	5	3	2	5	4	3	4

Wheel #2

GWING	JIBUZ	TRSWA	VXJCP	HEXBW	GZFUM	XJLRB	ANZNE	KAEAS
0IMM	NCHEC	KINIC						
3	3	5						

BFWES EWXWS ODHCK ELKMH SKLZS TGWDL KLGCL SUDKD BNJCS

SWCCY SUDTV NFMBK SDRZN KBXPW YGFYI FTFCR KSCSN SXNRW

GBBUU YKMKE YRRKE FRACI HVDJL VGSHF WCZVU

END UPON SDEFI

ZWCZR ZKMEG
NITEP ERIPD

MESSAGE NO. 3

1-4-6-10-14-15

2

4
Disk No 2
75 pins

¹ LLLCC ¹² YYYYY ²⁰ HUUUM ³⁰ MMMMT ⁴⁰ TTXXX ⁵⁰ XXXXX ⁶⁰ XXHHH ⁷⁰ QUEEE ⁸⁰ EEHHS
¹³ SSSSS ¹² WWWW ¹⁰⁰ FFRRE ¹³⁰ EEDDD ¹⁴⁰ DDDDD ¹⁵⁰ DDZZO ¹⁶⁰ OOGGG ¹⁷⁰ GGPPP ¹⁸⁰ KKKKK
¹³ KLLLL ¹⁴⁰ DPPNN ¹⁵⁰ NKKKK ¹⁶⁰ KBJJV ¹⁷⁰ YYYYY ¹⁸⁰ YYYYY ¹⁹⁰ NFFFF ²⁰⁰ FFFFK ²¹⁰ KWWWU
¹² UUUUM ¹³ MRRRR ¹⁴⁰ SSSSS ¹⁵⁰ SSSSS ¹⁶⁰ XXXDD ¹⁷⁰ DDNNN ¹⁸⁰ NEEZZ ¹⁹⁰ ZZZZZ ²⁰⁰ ZZZZZ
¹² VDZZZ ¹³ ZZZOO ¹⁴⁰ OOGGG ¹⁵⁰ IIIII ¹⁶⁰ VVVPP ¹⁷⁰ PIIFF ¹⁸⁰ LLLCC ¹⁹⁰ CCCCC ²⁰⁰ CCCYY
¹³ YYHHH ¹⁴⁰ HNNNN ¹⁵⁰ NNNFF ¹⁶⁰ FKKKK ¹⁷⁰ KKKKK ¹⁸⁰ KBBBB ¹⁹⁰ BPPPP ²⁰⁰ UMMMM ²¹⁰ MRRRR
¹³ SSHHH ¹⁴⁰ HHHHH ¹⁵⁰ AAAAA ¹⁶⁰ TTTTT ¹⁷⁰ TTTTT ¹⁸⁰ JJJJJ ¹⁹⁰ SSSOO ²⁰⁰ OOOXX ²¹⁰ XIIII
¹² IZZZ ¹³ ZZMMM ¹⁴⁰ MMMGG ¹⁵⁰ GGIII ¹⁶⁰ IIVVV ¹⁷⁰ VVVVP ¹⁸⁰ PPPPP ¹⁹⁰ PPPPN ²⁰⁰ NNNNN
¹ LLLCY ¹⁰ HBTA ²⁰ WUUM ³⁰ RSSSX ⁴⁰ SSWWW ⁵⁰ FFRRR ⁶⁰ EOXXI ⁷⁰ IZZM ⁸⁰ MMWWL
¹³ LLLDD ¹⁴⁰ PNNNN ¹⁵⁰ NKKBB ¹⁶⁰ JJJJU ¹⁷⁰ UYYM ¹⁸⁰ MMMMT ¹⁹⁰ TXXXX ²⁰⁰ HHHCC ²¹⁰ CAAAR
¹⁴⁰ RSSXD ¹⁵⁰ DDNNN ¹⁶⁰ NEZZZ ¹⁷⁰ ZZZVV ¹⁸⁰ OOJJJ ¹⁹⁰ JGGMW ²⁰⁰ WLLLD ²¹⁰ DDDGC ²²⁰ CRRRV
¹⁴⁰ JJJJU ¹⁵⁰ YYYM ¹⁶⁰ MTTT ¹⁷⁰ TXXXH ¹⁸⁰ CCCC ¹⁹⁰ AALL ²⁰⁰ LLLSS ²¹⁰ WWWW ²²⁰ SSSSO
¹⁴⁰ OOZVV ¹⁵⁰ VVOJJ ¹⁶⁰ JGGGG ¹⁷⁰ GPPPP ¹⁸⁰ VVPPP ¹⁹⁰ NNNKK ²⁰⁰ KKKBJ ²¹⁰ JUUUU ²²⁰ UYYMM
¹⁴⁰ MTTAA ¹⁵⁰ AWUUU ¹⁶⁰ UUUM ¹⁷⁰ RRRRR ¹⁸⁰ HAAA ¹⁹⁰ AATT ²⁰⁰ JSSSS ²¹⁰ SSOOO ²²⁰ OZVVO
¹⁴⁰ OOOO ¹⁵⁰ JJGGG ¹⁶⁰ GWWW ¹⁷⁰ WLLDD ¹⁸⁰ DDDDG ¹⁹⁰ GGCC ²⁰⁰ CRRVJ ²¹⁰ JJUUU ²²⁰ UYMMT
¹⁴⁰ XXXXX ¹⁵⁰ HHCAA ¹⁶⁰ ALLSS ¹⁷⁰ WWWW ¹⁸⁰ FFRZZ ¹⁹⁰ VVVOO ²⁰⁰ OJJGG ²¹⁰ GGPPK ²²⁰ IIFFF
¹⁴⁰ LLLKK ¹⁵⁰ BBJJJ ¹⁶⁰ JUUUU ¹⁷⁰ YMMM ¹⁸⁰ MTTT ¹⁹⁰ TXXXH ²⁰⁰ HHHHH ²¹⁰ HHHHC ²²⁰ QUUEE
¹⁴⁰ EHHHA ¹⁵⁰ TTTJJ ¹⁶⁰ JJJSR ¹⁷⁰ REEEE ¹⁸⁰ EDDDO ¹⁹⁰ OOOOJ ²⁰⁰ JJJJJ ²¹⁰ GGGPP ²²⁰ PPPKK
¹⁴⁰ KIIII ¹⁵⁰ IIIID ¹⁶⁰ DGGGC ¹⁷⁰ CRRRR ¹⁸⁰ RVVVY ¹⁹⁰ YNNNN ²⁰⁰ FFFFF ²¹⁰ MMMMM ²²⁰ ITBBB
¹⁴⁰ BBPPP ¹⁵⁰ PUUUE ¹⁶⁰ EEEEH ¹⁷⁰ HAAA ¹⁸⁰ AATTN ¹⁹⁰ NNNNN ²⁰⁰ EEEZZ ²¹⁰ ZZVVO ²²⁰ OOJJJ
¹⁴⁰ JJGGG ¹⁵⁰ GPPPP ¹⁶⁰ PPKKK ¹⁷⁰ PPPPN ¹⁸⁰ NNNNN ¹⁹⁰ KKKBB ²⁰⁰ JJUUU ²¹⁰ UUUBB ²²⁰ BBTTT
¹⁴⁰ AAWWW ¹⁵⁰ WUUM ¹⁶⁰ MRRRS ¹⁷⁰ SXXXX ¹⁸⁰ DDDJJ ¹⁹⁰ JJSS ²⁰⁰ SOOOO ²¹⁰ OXXXI ²²⁰ IIIIZ
¹⁴⁰ ZMMM ¹⁵⁰ LLLDD ¹⁶⁰ DGGGC ¹⁷⁰ CLLCC ¹⁸⁰ YYYV ¹⁹⁰ YYNN ²⁰⁰ FFFFK ²¹⁰ KKKKB ²²⁰ BPPPP
¹⁴⁰ PUUUE ¹⁵⁰ EHHLS ¹⁶⁰ SSWWF ¹⁷⁰ FRRRR ¹⁸⁰ EEDDD ¹⁹⁰ DZZOJ ²⁰⁰ JGGGP ²¹⁰ PKKKI ²²⁰ IIFFF

Disk No 1

5

Wheel No 3

6

(6)

No 3
Wheel N=1
(16)

¹ LLLCY HBTAA ² WWUMC ALLLS SSWWW ³ FFFSS OOXXI IIZZM MMWWL
 LLLPP PNNNN NKKBB JJJJU HBBBT TTTTA AWWWU UUPUU UEEEE
 EHAT TTJJJ JSOOO OOOXX IZZZ ZMMW WLLD DDDGC CCRRV
 VJJJU YYYM MTTT TXXH CCCC AALL LLLS WWFR RRRRE
 EEEDD DDZOO OGGGM MWWW LLDD GGGC CCCR VVYY YNNFF
 FFFKK KBPPP PPPM RRRR SSXX XDDD NEEEE EEZZ ZVVO
 OOOZZ OOOGG GIIII IVVPP PPPN NLLL LCCY YYHH HBTTA
 WWWW UUMEE EHAA DDDN NNEEZ XXXII IZZGG GGIIV PFFFF.

No 6
(17)
Wheel N=2

¹ LLL²BB³ JJJJ⁴ UUYM⁵ MMTT⁶ TXXX⁷ XXXX⁸ XXHH⁹ CCAA¹⁰ A¹¹EHHA
 AAAAA TTTJJ JJSSE EEDDD DDDDV VVOOJ JGGG GPPP KKKKK
 KKKKK IIFG GCCC CRVV YYYYY YYYYY NFFF MMTT TXBBP
 PPPPU UEEEE HHHH HHHH AAATD DNNN NEEZ ZZZZ ZZZV
 VVOO OOOJJ JGGG PIIII VVPP PPPN KKB B BCC CCY
 YHHH HBBB BBTT TAAA AA AK KBBB BPPP PUUU UEEE
 HHHH HHHH AAAAA TDDD DDDT JJJJ SSSO OOOX XIIII
 IZZZ ZMGG GGGG GGIII IIVV VVVI IIIII IIIIF FFFFF.

No 5
(18)
Wheel N=3

¹ LLLL² CCYY³ YYHH⁴ BTTT⁵ MTTT⁶ TXXH⁷ H⁸PPP⁹ PPPU¹⁰ UUEE
 EHHHA WWFF FFFR REEEE EDDZ ZZZO OOOO GGII IIVK
 KIIII IIIII IFFL LCCC CYYH HBBN FFFF FFFF KBBB
 XXHH HCCA AAAAL LLSS SSWF FFFF RRRRE EEDI IZZZ
 ZZGG GPPP PPKK IIIIF NNNN KKB B JJJU UUY YMM
 TAWW WUUM MRRS SXXX TTTJJ JJSS SOOO OXXI IOOJ
 JGGP KKKI IGGC CCRR VVVV YYNN FFFT TTTX XHHH
 HCCA ALLS SSWF FRRR EEDV VOOJ JGGP PKKI IFFF.

4

Same as
Block #6
Wheel N^o 1
10

¹ LLLBJ UYMTT XXHCC ALLLS SSWWW FFFRR EEDDZ ZZOOG ³GMWWL
_{3 1 1 1 1 2 2}
 LLLDD DGGGG GCCRB JJJJU UYYT TTTA AWWW UUUM MRRR
 RSSXD DDNNJ JS000 OOOXX IZZZ ZMMW WLLD PPPNK KKRRV
 VVVVY NNNNF FKKKK KBBBP UUUUM RRSS SSSXX DDDNE EEEEZ
 ZZZV VVOJJ JGGGG GIIII VVPPP NNNKK KKKBJ JJUHH HBBTT
 TTAA AWUUU UUUM RRRRR SSXAA AATT JSSS SS00 OXXI
 IIII ZZZM MWWW WKKII IIIIG GGCC CRRV VVVY YNFFK
 BBBB PPUAA ALLSS WWWF FFRRE DDDZO OJJGG GGPPK IFFFF.

Same as
Block # 2
Wheel N^o 3
11

LLLLL ₅ CCYYY ₂ YYUUU _{5 1} YMMM MMTT TXXH HHHH HHHHC CCAA
 ALLS WWFF FFFSS S000 OXXI IIZO OOOO GGGI IIVV
 VPPPI IIII IFFFL CRRR RVVY YNNN FFFF FFFF TXXX
 XXHH HCCA AAAAL LLSS SSTT JJJJJ SSSO OXXI IZZZ
 ZMMM MWWW WLLL DDDDG GGGG CCCR VVYH HHHB BBTT
 AAWW WHHC CAAAL LSSS WWFF NNNE EZZZ ZVVO OOOJ
 JGGGP KKKID DGGG CCCR VVVY HHHB TFFK KKKK BPPP
 PUUUE EHHHA AATT JRRRR EEDD DZOO OGGG IVVK IFFFF.

Same as
1
Wheel N^o 2
12

LLLCC ₃ YYYYY ₅ HHHBM ₃ MMMT ³ TTXB BBBB BBPHH CAAA ALLS
 SSSS WWFF FFRRZ ZZZV VVVV VVOO JJGG GGPP KKKL
 LLLL DDDGN NKKKK KBJJ UUUUY YYYYY NFFF FTAA AWWU
 UUUUM MRRR SSSS SSSS XXXD DDNN NEEZ ZZZZ ZZZV
 VVOO ZZO OOGG IIII VKKI IIFF LLCR RRRR CCCY
 YYHH HHHB BBTT TAAA AAAAA AWWW WUUU UUUU UEEE
 HHHH HHHH AAAAA TTTT TTTT JJJJ SSSO OOOX DZZZ
 ZZO OOGG GGGG GGIP PPKK KKKI IIII IIIIF FFFF.



Same as Block #2

Wheel #1

LLLCY HBTAA WWHCC ALLLS SSWWW FFFRR EEDDZ ZZOOG GGIIV
 VVVPP PNNNN NKKRR VVVVY YNNNF FFFMT TXXXX HHHCC CAAAA
 ALLSD DDNNN NEZZZ OOOXX IZZZ ZMMM WLLD DDDGC KKBBJ
 JJJJU YYYM MTTT TXXH CCUU EHHH HHAA TTTJS SSSSO
 OOOXX XXIZZ ZMMM MWWW LLDD GGGC CCLCY YYHH HBBT
 TTAA AXHH HHHCC AAAAA LLSS XXDD NEEEE EEZZ ZVVO
 OOOO JJJGM MWWW WLLD DDDDF FLLL LCRV VVVY YNFFK
 BBBB PUEE EHAA TWWF FFRRE DDDZ ZOOG GGIPK IFFF.

LLLL CCYY YUUU YMMM MTTT TXXH HHHH H³PPU UUEA
 ALLS WFFF FFRRE REEEE EDDZ ZZZO OOOJ GGGP PPPK
 KDDD DPPP PNNK KBBR RVVY YNNN FFFF FFFF KAWW
 WUUU UMMR RRRS SSXX XXDN NNNN EEEZ ZVVO OOJJ
 JOGG GIII IIVV PPPN NNNN KLLC YYHH HHHB BTTT
 AAWW WPUU UEEH HAAAA TTTJ JJSS S000 ZVVO OOOJ
 JGMM LLLD DGGC CCCR VVVV YYNN FFFK KKKK BPPP
 PUUE EHHH AATW FRRR EEDD DZZO OGGI IVVP PNNN.

Same as #4

Wheel #3

LLLC₃ YYY₂ HHH₃BT TTT₅TA TTTXX XXXX X³PPP UEEEE EEHA
 AAAAA WFFF FFRRE EEDD DDDD DZZO OGGG GGIII VVVK
 KKKK IIIFF FLLL LCYY HHHH HHYY NFFF FFFK KBBP
 HHHH CAAAA LLLL LLLL SSSW WFFF FRRRE EEEEO OOOX
 XXOO OOOJ JJGG PPPP VVPP PPPN KKKB BBBB BBBJ
 JYHH HHHB BBTT TAAA KKKK KBBB BPPP PUUU UMRR
 SSSS SSSS XAAA TTTT TTTT JJJJ SSSOE EEED DZZZ
 ZZOO OGGG GGGG GGIII IIVK KKKI IIII IIIIF FFFF.

not block

Wheel #2

① | 8 | 2 | 3 | 2

123
213
23

NEWEN	GLAND	SDEAT	HTOLL	FROMR	AGING	WATER	SANDA	VALAN
VZEVJ	NRTIF	YLFMW	SRJAL	HXYZG	JVPDY	BOOLW	EZMSG	HGGIH
CHESH	MOUNTE	DTOT	NI	VIETON	IGNTV	OMMAI	NTHEM	OSTSE
PNEIU	FTAUZ	DYEVN	ZOHEG	SEWTJ	OYYTN	IURIB	PHMBL	TOITB
FLOOD	SINCE	THEHU	NDRED	MILLI	ONDOL	LARDI	SASTE	ROFNI
XRBPV	EBLRH	ZDAZP	JCLLA	PXZZT	SYUOH	HWPHX	MIOLZ	PDUOR

JOHOJ PTHGK ARCKG KFXGT AMUXL YIHYN MHBUH ANXTW ZJKIT

WCWDX HUETW FCZVF WHREA WEFEN VEFOL PZALX DENFH FULOM

ROYHA WRZBM XEZIL EIWRW BWLSB HTPTI KRGEZ EQZAN VENZN

FJEEI BSRVX ZXANP XJJDK CJGDO YWRZH VDYZW JDXGH VLGND

BCITT CNFRA HKFEZ CJBBJ YSXL L IIMS CSJXG MGYPN HCEFL

TAZOA EFFYJ JYMYA DUXOB KYBSI HPTPZ MBUHG LP IAI AMYKW

UDDST JURZR MOGSW VANDO TCNTU UXBWA EMFWD VFXIE VZBWA

EDBYO ENZJE PUTDA WUNMT YGPFJ SGM MY HDANJ XRLDK EITTJ

BVOHG CPACA VSWML RVJTR FGALC UFKJL OKOSP MTXEV ITIPH

NTPJR SXMDM WWMK MPXTT LWDXU LBLSM AWKIC JKNLO VJCHD

IEBZG UOCCY DPNAI EAZKB GYNLV YIURW FUHDP BLULT LVKU

WYBSA JZYNM OTJMG JUZSV GBDSM MNAWE SIMZS OVEZJ NJEEI

CMPGY FZGJU ENALE ZCXLO XSOGV HRBWZ ZDCJS PVZ IW ZJBXP

NEW ENGLANDS DEATH TOLL FROM RAGING WATERS AND AVALAN-
 CHES MOUNTED TO FIFTY-NINE IN THE MOST SERIOUS
 FLOODS IN THE HUNDRED MILLION DOLLAR DISASTER OF
 NINETEENTY SEVEN COMM WHEN ONE HUNDRED TWENTY FIVE
 PERSONS PERISHED PERIOD THE DEAD ARE COLON HENRY ROY
 COMM THIRTY FIVE COMM DROWNED IN PISCATAQUOG RIVER
 COMM AGOSTON COMM NEW HAMPSHIRE SEMI COLONE EUGEN
 E HILL COMM SIXTY FIVE COMM KILLED IN A NAVAL ANCHOR
 CL EN COMM NEW HAMPSHIRE SEMI COLON SERAPHIN ANARDIC
 COMM AEGHT COMM BROCKTON COMM DROWNED WHEN A RAFT OVE
 R TURNED SEMI COLONE ZRAOBER COMM FIFTY COMM KILLE
 D IN A NAVAL ANCHOR NORTH JAY COMM NEW HAMPSHIRE SEMI
 COLON STEPHEN HART COMM THIRTY TWO COMM DROWNED AT G
 R O N COMM VERMONT PERIOD MORE THAN A SCORE WERE IN JU
 RED AS ICE HYPHEN CHOKED RIVERS AND TRIBUTARIES COMM
 FED BY RAPIDLY MELTING SNOWS AND TORRENTIAL RAINS COM.

⁵ VZFBV ¹⁰ NRTIF ¹⁵ YLFMW ²⁰ SRJAL ²⁵ HXYZG ³⁰ JVPDY ³⁵ BOOLW ⁴⁰ EZMSG ⁴⁵ HGGIH
 NEWENGLANDSDEATHTOLL

⁵⁰ PNEIU ⁵⁵ FTAUZ ⁶⁰ DYEVM ⁶⁵ ZOHEG ⁷⁰ SEWTJ ⁷⁵ OYYTN ⁸⁰ IURIB ⁸⁵ PHMBL ⁹⁰ TOITB

⁹⁵ XRBPV ¹⁰⁰ EBLRH ¹⁰⁵ ZDAZP ¹¹⁰ JCLLA ¹¹⁵ PXZZT ¹²⁰ SYUOH ¹²⁵ HWPXH ¹³⁰ MIOLZ ¹³⁵ PDUOR

¹⁴⁰ JOHOJ ¹⁴⁵ PTHGK ¹⁵⁰ ARCKG ¹⁵⁵ KFXGT ¹⁶⁰ AMUXX ¹⁶⁵ YIHYN ¹⁷⁰ MHBUE ¹⁷⁵ ANXTW ¹⁸⁰ ZJKIT

¹⁸⁵ WCWDX ¹⁹⁰ HUETW ¹⁹⁵ FCZVF ²⁰⁰ WHREA ²⁰⁵ WEFEN ²¹⁰ VEFOL ²¹⁵ PZALX ²²⁰ DENFH ²²⁵ FULOM

²³⁰ ROYHA ²³⁵ WRZBM ²⁴⁰ XEZIL ²⁴⁵ EIWWR ²⁵⁰ BWLSB ²⁵⁵ HTPTI ²⁶⁰ KRGEZ ²⁶⁵ EQZAN ²⁷⁰ VENZN

²⁷⁵ FJEEI ²⁸⁰ BSRVX ²⁸⁵ ZXANP ²⁹⁰ XJJDK ²⁹⁵ CJGDO ³⁰⁰ YWRZH ³⁰⁵ VDYZW ³¹⁰ JDXGH ³¹⁵ VLGND

³²⁰ BCITT ³²⁵ CNFRA ³³⁰ HKFEZ ³³⁵ CJBBI ³⁴⁰ YSXL ³⁴⁵ LIIMS ³⁵⁰ CSJXG ³⁵⁵ MGYPN ³⁶⁰ HCEFL.

TAZOA EFFYJ JYMYA DUXOB KYBSI HPTPZ MBUEG LPIAI AMYKW

UDDST JURZR MOGSW VANDO TCNTU UXBWA EMFWD VFXIE VZBWA

EDBYO ENZJE PUTDA WUNMT YGPFJ SGMME HDANJ XRLDK EITTJ

BVOHG CPACA VSWML RVJTR FGALC UFKJL OKOSP MTXEV ITIPH

NTPJR SXMDM WWMK MPXTT LWDXU LBLSM AWKIC JKNLO VJCHD

IEBZG UOCCY DPNAI EAZKB GYNLV YIURW FUHDP BLULT LVIKU

WYBSA JZYNM OTJMG JUZSV GBDSM MNAWE SIMZS OVEZJ NJEEI

CMPGY FZGJU ENALE ZCXLO XSOGV HRBWZ ZDCJS PVZIW ZJBXP.

VZFBVJ NRTIF YLFMW SRJAL HXYZG JVPDY BOOLW EZMSG HGGIH
VZFBVJ NRTIF YLFMW SRJAL HXYZG JVPDY BOOLW EZMSG HGGIH
PNEIU FTAUZ DYEVM ZOHEG SEWTR OYYTN IURIB PHMBL TOITB
PNEIU FTAUZ DYEVM ZOHEG SEWTR OYYTN IURIB PHMBL
XRBPV EBLRH ZDAZP JCLLA PXZZT SYUOH HWPXH MIOLZ PDUOR

JOHOJ PTHGK ARCKG KFXGT AMUXL YIHYN MHBUE ANXTW ZJKIT
WCWDX HUETW FCZVF WHREA WEFEN VEFOL PZALX DENFH FULOM
ROYHK WRZEM XPLLN IWRRH WFSBH TGTIP MGEZE QIANV ERZYF
JEEIK SRRXZ OANPX TJLKC JGCEO YWRZH VDYZW JDXGH VLGND
BCITT CNFRA HKFEZ CJBBJ YSHEL LIIMS CSJXG MGYPN HCEFL
SAZOA EFFYJ JYMYA DUXOB KYBSI HPTPZ MBUEG LPIBI AMYKW
UDDST JURZR MOGSW VANDO TCNTU UXBWA EMFWD VFXIE VZBWA
EDBYO ENZJE PUTDA WUNMT YGPFJ SGM MY HDANJ XRLDK EITTJ
BVOHG CPACA VSWML RVJTR FGALC UFKJL OKOSP MTXEV ITIPH
NTPJR SXMDM WWMK MPXTT LWDXU LBLSM AWKIC JKLNO VJCHD
IEBZG UOCCY DPNAI EAZKB GVNLY YIURW FUHDP BLULT LVIKU
WYBSA JZYNM OTJMG JUZSV GBDSM MNAWE SIMZS OVEZJ NJEEI
CMPGY FZGJU ENALE ZCXLO XSOGV HRBWZ ZDCJS PVZIW ZJBXP.

NEW ENGLANDS DEATH TOLL FROM RAGING WATERS AND AVALAN
CHES MOUNTED TO FIFTY-ONE IN THE MOST SERIOUS
FLOODS IN THE HUNDREDS OF DOLLARS AS THE FLOODS
NETEENTWENTYSEVEN COMMANS WHEN ONE HUNDRED TWENTY FIVE
PERSONS PERISHED PERIOD THE DEAD ARE COLON HENRY ROY
COMMATHIRTY FIVE COMMADROWNED IN PISCATAQUOG RIVER
COMMAGOFFSTOWN COMMANEWHAMPSHIRE SEMI COLONEUGEN
E HILL COMMASIXTY FIVE COMMAKILLED IN ANAVALANCHEAT
CL EN COMMANEWHAMPSHIRE SEMI COLON SERAPHI NANARDIC
OMMAEIGHT COMMABROCKTON COMMADROWNED WHEN ARAFTOV
ERTURNED SEMI COLONE ZRAOBER COMMALFIFTY COMMAKILLE
D IN ANAVALANCHEAT NORTH JAY COMMANEWHAMPSHIRE SEMI
COLON STEPHEN HART COMMATHIRTYTWO COMMADROWNED AT G
ROTON COMMAMONTVERMONT PERIOD MORE THAN A SCORE WERE IN JU
RED AS ICE HYPHEN CHOKED RIVERS AND TRIBUTARIES COMM
FED BY RAPIDLY MELTING SNOWS AND TORRENTIAL RAINS COM.

NEW ENGLANDS DEATH TOLL FROM RAGING WATERS AND AVALANCHES MOUNTED TO FIFTY ON EIGHT COMMA IN THE MOST SERIOUS FLOODS SINCE THE HUNDRED MILLION DOLLAR DISASTER OF NINETEENTWENTY SEVEN COMMA WHEN ONE HUNDRED TWENTY FIVE PERSONS PERISHED PERIOD THE DEAD ARE COLON HENRY ROY COMMETHIRTY ONE COMMA DROWNED IN PISCATAQUOGRIVER COMMAGOFFSTOWN COMMA NEW HAMPSHIRE SEMI COLONE EUGEN EHILL COMMA SIXTY FIVE COMMA KILLED IN AN AVALANCHE AT GLEN COMMA NEW HAMPSHIRE SEMI COLON SERAPHINONARDI COMM AEIGHT COMMA BROCKTON COMMA DROWNED WHEN A RAFT OVERTURNED SEMI COLONE ZRAOBER COMMA FIFTY COMMA KILLED IN AN AVALANCHE AT NORTH JAY COMMA NEW HAMPSHIRE SEMI COLON STEPHEN HART COMMA THIRTY TWO COMMA DROWNED AT GROTON COMMA VERMONT PERIOD MORE THAN A SCORE WERE IN JURIED AS ICE HYPHEN CHOKED RIVERS AND TRIBUTARIES COMMA FED BY RAPIDLY MELTING SNOWS AND TORRENTIAL RAINS COM.

2

^{3 1 1 1 2 2 1 1 3 3 2 1 3 2 2 1 1 3 2 3 2}
 LLLCY HBTAA WWUMC ALLLS SSWWT JJJSS OOXD@ @@OOG GGIV
 VVVPP PNNNN NKKEC YYYYH HBBBT TTTTA AWWW UUUMM MREE
 EHHAT TTJJF FREEE EEEDD @@OO@ @MMW WLLD DIIFL LLCCY
 YYYYH BBBBT TAAAA AWWWU MMMMM RRSSS SSSXX DDDNE EEEE@
 @@@VY DD@OO OGGGG GIIII VKIII FFLL LCRV VVYYY HBBTT
 TTTAA AWUUU UUUMM RRRRR SSXXX XXDDD NEEEE ES000 OOXI
 TIIII @MM MWWW WLLDD DDDDG GGCC CRRV VVYY UYMT

ABC

A

XXXXX HHCAA ALLSS WWDN NEE@ VVVOO OJJGG GGPPK IFFFF.
 LLLCC YYYYY HHUYM MMMT TTTXX XXXX XXHHH CAAA AALLS

B

LIIII VVVPP PPNMW WLLL LLLL LLDJU UUYYY YMMM TTTTT
 TTTTF LLLCC CYYYY FKBBB PPPPP PPPPP UEEEE EEEHH REED
 DDDD@ @O000 GGGGG GGGGG IIXII IIOO@ @MMW WWWW WWWL

1 2 3 4 5 6 7 8 9 10 @ A B C D E F G H I J K L M
 L C Y H B T A W U M ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡

U Y M T X H C A L S I N O P Q R S T U V W X Y Z
 @ O G I V P N K B C ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡

11 12 13 14 15 16 17 18 19 20
 R S X D N E @ Y O J

G P K I F

47
360

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	@
W	T	Y	@	H	R	V	B	W	S	B	C	C	K	X	N		E	W	A	M	P	L	D	H		O
L	C	A	L	D	L	C	A	F	F	I	S	R	E	G	K		S	O	J	D	K	T	H	U		M
T	P	R	N	@	K	P	C	@	G		J	W	M	@	U		V	X	X	Y	Y	L	H	M		V
			G	S			U	X	U		T		J						X	Y	Y	L	H	M		V
			J				R												F	E	O	J			F	

~~AWUMC~~

GIFLC

GIFLCYHBTAWUM

MR

CALSWTJFRED@O

///

@MWLD

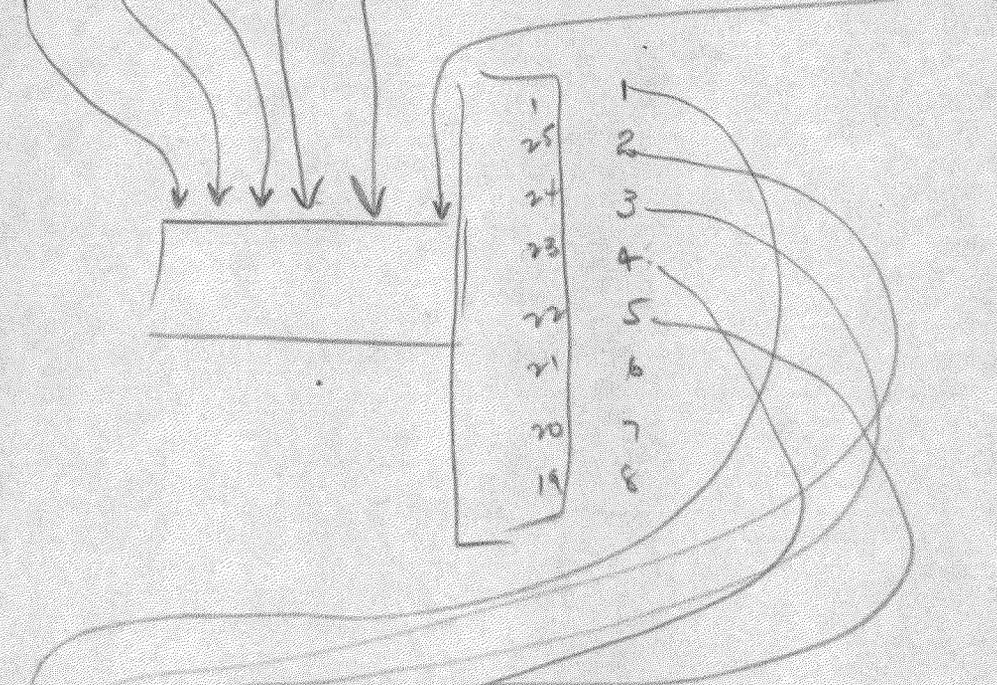
MTXHCA

RSDNE[?]SOXI@MWLDGCRVYUJMTX

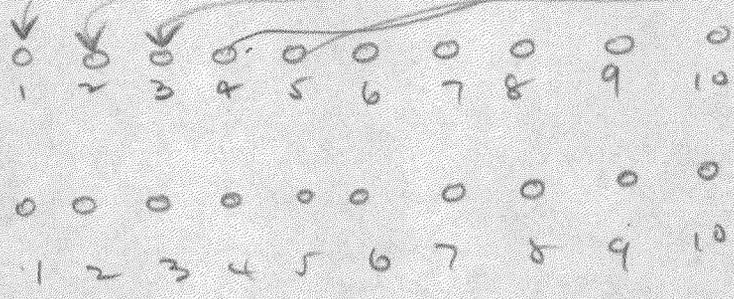
EHC RVYM

1.	V	O	J	G	-	2
2.	O	G	I	V	P	2
3.	M	W	L	D		2

Playboard



Playboard



3	M	W	L	D	2
2	O	G	I	V	2
1	V	O	J	G	2

1 2 3

Determine
type of stepping

4 5 6

Determine sequence
of commutators

Determine
starting
point of
Commutators

1
25 pos.

11 12

Determine
sequence
of wheels
1-2-3

3?

Determine
sequence
of wheels
4-5-6-7-8-9

REF ID: A41272150

	0	1	2	3	4	5	6	7	8
0		A	B	C	D	E	F	G	H
1	E	E	F	G	H	I	J	K	L
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

Stepping
Wheel No 1

New cam position
State Dept Inst
Determined from
9000 depression of
A, with no playboard
connections interchanged.

Stepping
Wheel No 2

	0	1	2	3	4	5	6	7	8	9
0	1	1	1	2	2	2	2	3	3	
1	3	3	3	3	2	2	2	2	1	1
2	3	3	3	3	3	3	2	2	2	2
3	2	2	2	3	3	3	3	1	1	1
4	1	1	1	1	2	2	2	2	2	2
5	2	2	1	1	1	1	1	3	3	
6	3	3	3	3	3	1	1	1	1	1
7	1	3	3	3	3	3	2	2	2	2
8	2	1	1	1	1	2	2	2	2	2
9	2	2	2	2	2	2	3	2	2	2
10	2	2	2	2	2	1	1	1	3	3
11	3	3	3	2	2	2	2	2	2	2
12	3	3	3	3	3	3	1	1	1	1
13	1	1	1	1	2	2	2	2	2	2
14	2	2	1	1	1	1	1	3	3	
15	3	3	3	3	3	3	3	3	2	2
16	2	2	2	2	3	3	3	3	3	3
17	3	3	3	2	2	2	2	2	2	2
18	1	1	1	1	1	2	2	2	3	3
19	2	1	1	1	1	1	1	1	1	1
20	1	3	3	3	3	3	2	2	2	2
21	2	2	3	3	3	3	3	3	1	1
22	1	1	1	2	2	2	2	2	2	2
23	2	2	2	2	1	1	1	1	3	3
24	3	3	3	3	3	3	1	1	1	1
25	1	1	3	3	3	3	3	2	1	1
26	1	1	1	1	2	2	2	2	2	2
27	2	3	3	3	3	3	3	3	2	2
28	1	1	1	1	1	3	3	3	3	3
29	3	3	2	2	2	2	2	3	3	3
30	1	1	1	1	1	2	2	2	2	2
31	2	2	2	1	1	1	1	1	1	1
32	1	1	1	3	3	3	3	3	3	3
33	3	1	1	1	1	1	1	1	1	1
34	1	3	3	3	3	3	3	3	2	2
35	2	2	2	2	2	1	1	1	1	1
36	1									

5A 5A

5B

5

5C

5D

5E

5F

6A

6B

6C

6D

6E

6F

Distribution of the three alphabets by block types

REF ID: A4127215

	0	1	2	3	4	5	6	7	8	9
0		1 ₂	1	2 ₁	2	2	2	3 ₀	3	3
1	3	3	3	2 ₃	2	2	1 ₅	1	1	1
2	1	3 ₃	3	3	2 ₀	2	2	2	2	2
3	3	3	1 ₆	1	1	1	1	1	2 ₉	2
4	2	2	2	2	2	2	2	1 ₇	1	1
5	1	1	1	1	3 ₀	3	3	3	3	3
6	1 ₃	1	1	3 ₁	3	3	3	3	3	3
7	2 ₃	2	2	1 ₈	1	1	1	1	1	1
8	1	2 ₇	2	2	2	2	2	2	3 ₄	3
9	3	3	2 ₉	2	2	2	2	2	2	2
10	2	1 ₈	1	1	1	1	1	1	1	3 ₀
11	3	3	3	3	3	2 ₈	2	2	2	2
12	2	2	2	3 ₁	1 ₇	1	1	1	1	1
13	1	2 ₂	2	2	2	2	2	2	2	2
14	2	2	2	1 ₆	1	1	1	1	1	3 ₇
15	3	3	3	3	3	3	1 ₇	1	1	1
16	1	1	1	3 ₇	3	3	3	3	3	3
17	2 ₉	2	2	2	2	2	2	2	1 ₃	1
18	1	1 ₁	1	1	1	2 ₃	2	2	3 ₀	3
19	3	3	2 ₅	2	2	2	2	1 ₆	1	1
20	1	1	1	3 ₀	3	3	3	3	3	2
21	2	2	2	2	3 ₆	3	3	3	3	2
22	1 ₅	1	1	1	1	2 ₉	2	2	2	2
23	2	2	2	2	1 ₆	1	1	1	1	1
24	3	1 ₀	3	3	3	3	3	3	3	3
25	1	1	1	1	1	1	1	3 ₂	3	2 ₀
26	2	2	2	2	2	1 ₅	1	1	1	1
27	2 ₄	2	2	2	2	3 ₅	3	3	3	3
28	2	2	2	2	1 ₉	1	1	1	1	1
29	1	3 ₅	3	3	3	3	2 ₂	2	3 ₁	1 ₉
30	1	1	1	1	1	1	1	1	2 ₉	2
31	2	2	2	2	2	2	1 ₅	1	1	1
32	1	3 ₉	3	3	3	3	3	3	3	3
33	1 ₈	1	1	1	1	1	1	1	3 ₀	3
34	3	3	3	3	3	3	3	3	2 ₉	2
35	2	2	2	2	2	2	1 ₅	1	1	1
36	1									

3A

3B

3

3C

3D

3E

3F

4A

4B

4

4C

4D

4E

4F

Distribution

of the 3 alphabets by blood types

REF ID: A4127215

	0	1	2	3	4	5	6	7	8	9
0		1 ₃	1	1	2 ₈	2	2	2	2	2
1	2	2	3 ₅	3	3	3	3	2 ₅	2	2
2	2	2	1 ₅	1	1	1	1	3 ₅	3	3
3	3	3	2 ₅	2	2	2	2	3 ₅	3	3
4	3	3	1 ₅	1	1	1	1	2 ₅	2	2
5	2	2	1 ₀	1	1	1	1	1	1	1
6	1	1	3 ₅	3	3	3	3	1 ₅	1	1
7	1	1	3 ₁₀	3	3	3	3	3	3	3
8	3	3	2 ₅	2	2	2	2	1 ₅	1	1
9	1	1	2 ₅	2	2	2	2	3 ₅	3	3
10	3	3	2 ₁₀	2	2	2	2	2	2	2
11	2	2	1 ₅	1	1	1	1	3 ₅	3	3
12	3	3	2 ₁₀	2	2	2	2	2	2	2
13	2	2	3 ₅	3	3	3	3	1 ₅	1	1
14	1	1	2 ₅	2	2	2	2	1 ₅	1	1
15	1	1	3 ₅	3	3	3	3	1 ₁₀	1	1
16	1	1	1	1	1	1	1	3 ₅	3	3
17	3	3	2 ₅	2	2	2	2	1 ₉	1	1
18	1	1 ₄	1	1	1	2 ₈	2	2	2	2
19	2	3 ₄	3	3	3	2 ₈	2	2	2	1 ₆
20	1	1	1	1	1	3 ₆	3	3	3	3
21	3	2 ₇	2	2	2	3 ₆	3	3	3	1 ₃
22	1	1	2 ₆	2	2	2	2	2	1 ₃	1
23	1	3 ₆	3	3	3	3	3	1 ₄	1	1
24	1	3 ₇	3	3	3	3	3	3	2 ₆	2
25	2	2	2	2	1 ₉	1	1	1	1	1
26	1	1	1	2 ₆	2	2	2	2	2	3 ₇
27	3	3	3	3	3	3	2 ₇	1 ₈	1	1
28	1	1	1	1	1	3 ₅	3	3	3	3
29	2	2	2	2	2	2	2	3 ₁₀	3	3
30	3	3	3	3	3	3	3	1 ₆	1	1
31	1	1	1	2 ₇	2	2	2	2	2	2
32	1	1	1	1	1	1	1	1	1	3 ₄
33	3	3	3	1 ₉	1	1	1	1	1	1
34	1	1	3 ₆	3	3	3	3	3	3	3
35	3	3	2 ₈	2	2	2	2	2	2	2

3³ 3⁴

1 A

1 B

1 C

①

⑥

180

Handwritten signature

2 A

2 B

②

2 C

2 D

2 E

2 F

2 F

cooper saq

Stepping
Wheel

	1	2	3	4	5	6
1	X	X	X	X	X	X
2	X	X	X	X	X	X
3	X	X	X	X	X	X

1	11 -	19	115 -	37	26
2	22 -	20	31	38	12
3	33 -	21	25	39	35
4	24 -	22	11 -	40	24 -
5	15 -	23	24 - A	41	11 -
6	36 2	24	16 B	42	25
7	14	25	34 C	43	31
8	23	26	26 D	44	23
9	31	27	12 E	45	14
10	16	28	36 F	46	32
11	32	29	14 G	47	21
12	21 A	30	22 - H	48	13
13	12 B	31	33 - I	49	22 -
14	34 C	32	21 - J	50	36 -
15	25 D	33	13		
16	13 E	34	32		
17	26	35	23		
18	35	36	35		
19	15				

	1	2	3	4	5	6
1						
2						
3						

22/33 - 2
11/21 + 21/11

36-14

123 213 231 213 132

I

Stepping
Wheel
Alph.
Seq.

Stepping
Wheel 1

1 - LLOBJ JUYYY YFFKB HXXHC QRRRR, SATTT TWFFF TSSSO OVOOJ 45
 JOGGG GPPPP PKKKI IDGGG GLLLL LRRRR RRVVV VJJJU UHHHH 1
 HUYYY YNFFF FMMPT TTXXX HUMMM MUUEE ELLLS SSWWW WJJJJ 135
 SEREE ZEREE DVVVV OIIIZ ZJGGG GGGPP FLLLL DPPP, NFFF 160

2 - LLOJ JJUUY NFFFM TXHUU MMMME EHHAA SWWWJ JJSSE ZEEED 225
 DZOJJ ZMMWW LKKII DDDGG GGNNN NKKLL LLLL CYJJJ JUUY 270
 YNNNN YTTTT TAAAK BBBB HCCAA AEEH HHAA, TDDNN MNRRR
 RRRR ZVVVO OOOI, ZZJJJ JGGGG GWWW WWWL, LVVVP PENNF.

3 - LBBB, JVYY, NYYYY, TTTTA KKBXH HHHHU URRSS SSISS SWWWW 45
 NEEEE, ZZZQX XXIZJ JGMMM, WWWLV VVKII IIIIF, NNNKK KBRVV 90
 VUUUU, YYYYY, TTTTT TAAKK KKKXX XXXXX XRFU UUMMM CGAAA 135
 AALSS SSXXX XDDJS SSSOO VVVVO OJZZM MMWVI IVVPP PPIFF. 18.

4 - LLOJ JJJYN NYMMM, TWUUU, MMUUE EHHSS SWWTJ JJSSE, ZZZVD 275
 DZQO OGGPP, KKKID DDDGG GGGGG FLLLL LCKB BJJJY YHHU 270
 UYYYN NFFFM MTTAA, WWWU PUUEE AAERS SSSXX DDWFF FFRRR 315
 EEEEE, OXXXI IIIIO, JJJJJ JGMMM MWWW WWLIV VVVVP, IIPFF. 360

5 - LLOBJ JUMNN NFETX XXWUU, UEEEE, LSWWW WWJJJ JEEZZ ZVOZO 45
 OQGGG GPPPP PKLLD DDGGF ELLLL QRRRR, BBJJJ, YYYX, UUUU 90
 UUYYY NYMMM MMTTA AABBB, PECC CCQAE EHHHA, XDDDD DNNFF, 135

6 - RRRRR, EZZZZ, VVXXX, IIIIZ ZZMGG GGGWW WLLLL, DDPPP, NNNNF. 160
 LLOCC JJJYU, BBBB, TTTTA KKBBP HHHHC QERHH HHSXX, XDWWW, 225
 FFRRR, EEEZV VVOZZ ZMMMM, PPPKK KLLPD DDPIF FFFLK KBBJJ 270
 JYYYY, NNYYB, TTTTT FKKKK KTTXX XBBBW WUUUH HCCC CRRR 315
 RRSS SSAAA APTJS EEEZZ, VVVVO IZZZM MMWVI IVVPI IIIFF. 360

1 1
 2 2
 3 3
 2 4
 1 5
 3 6

Stepping Wheel

Alphabet Sequence

7- ¹LLCC²J³ ¹JUN²NNN³ ¹NMM²TX³ ¹XWW²UM³ ¹MR²EE³E⁴ ¹HA²TWW³ ¹WW²FJJ³ JSSSZ ZV000
 OOGGG GIPPP PKKKD DDGGG GCCCC LCCCG CRVJJ JJJJH HHHHU
 UUYYN NNFFM MMAAA AAWWW PPUUU CCURR RSSSX XXWWW WFFFF

1

4

(4)

8- ¹LL²KB³J⁴ ¹JV²YY³N⁴ ¹NN²MM³M⁴ ¹AW²UU³U⁴ ¹UU²CA³ ALLSA ADDDN NNRRR EEEDD
 DOOJJ JGGWW LLLDI IIDGG GGGGN NNLLL LLLLC BJJJJ JUYYY
 YYYYY YMMMM TAAAA WWBPP PUUEA AAAAL LLHXX DDDNN FFRRR
 RRREZ ZVVVO OOOII ZZZZZ JGGGG GPWWW WWWVV VVVVP PFFFF

2

3

(5)

9- ¹LL²CB³J⁴ ¹JJ²JU³U⁴ ¹YNN²NN³N⁴ ¹FMM²MT³T⁴ TAWWU UPPPU UAALL LHAA ADDDD
 NFRRR EZZZV VVOJJ JMMMM WPPKK KLLDD DDDDG GNNKK KCCYY
 YUUUU YNNNN FMMMM MTTT TAAWW WBBBB BHHHH HHCCC CUEEE
 ERSSS SLSSS SDDNE ESSOO XVVOO OJJJG GMWWV WVVPP PIIFF

3

1

10- ¹LL²CC³J⁴ ¹JU²Y³N⁴Y⁵ ¹BTT²AW³ ¹WW²UM³ ¹UE²EE³E⁴ ¹LS²WW³ ¹WT²JJJ³ JSEEZ ZVZZO
 OOGGG GIIPP PKKLD DDGGG FLILL LRRRR RRJYY YYYU UUUUU
 UYNNN NMMMT TTTAA KBBBB PHCCC CUUER RSSSS SSWWW WFNNN
 EEEEE ZZ000 XXXXX OOOOJ JGGGG MMMWW WLLVV PPPPI PFFFF

1

6

(6)

11- ¹LL²CB³J⁴ ¹JJ²JU³U⁴ ¹NN²NN³Y⁴ ¹MM²TA³ ¹AA²WP³ ¹PP²PU³ ¹CA²AL³H⁴ HHHXX XWWW
 FFEEDD OOOOX XVOJJ ZMMMM WWIVV VVVII IIIIF FFNKK KBBVV
 VYYYY YBBBB TTTT FKKKT TTTXX XBBBB BPPPP PUMMM MAAA
 AALLS SSXXX XDDJS SSEZZ VVVOO OZZZM MMWWW WVVPP PPNF

3

2

(7)

12- ¹LL²KB³J⁴ ¹JJ²JU³Y⁴ ¹YN²FFF³ ¹KX²HH³H⁴ ¹CM²MR³ ¹RH²AA³ ¹AW²WF³ ¹FJ²SS³ ¹OZZ²V³
 VZZOO OGGPP KKKII IDDGG GFFFF FGCCC CCCCR RJJJJ JHHHH
 HYYYY YFFFF FTTTT XXXXH HMMRR REEEH HLLSS WWFFF FJSSS
 SEEBZ ZDDDZ ZOOOO JZZZZ ZGGGG GPPPP PWWWL LUVVP PIIFF

2

1

Stepping
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Ceph
Seq.

3

13- ¹LLCCJ² ¹JUYY² ¹NFFK² XXXUM MRRRE HATTT WFFFJ JSSEZ ZDZZO
 OOGGG MWWW WKKKI DDGGG GCKKK KBBCC OCYYY YJYJU UUYUY
 YNNNN YBTTT TTTAK KKBXX HHCCC CUUEE EHHHA AXDDD DNFFF
 RRRRE ZZZZZ VVVXX IIOOJ JGGGG GMMWW WLLLL DPPPP NNNNF.

1 2

7

14- ¹LLCGB² ¹JJV²Y³ ¹NY²YYY MTTTA AABBP PPPHC CAHHH HHHAX XDDDDW
 FFRRR EEZZV VVOJZ ZMMMM WWLIL KKKII IDDPN NNNKL LCCYJ
 JUUYU NNNNY MMTT TAAAA KKKBB XBXWW WUUUU UCCCC CAAAA
 RRSSS HAAAA ATTJE EEEZZ VVXII IZZZM MMIII IVVPP IIIFF.

3 4

15- ¹LLLB²J³ ¹JJ²Y³N⁴ ¹NN²F³MM⁴ ¹TX²U³P⁴ UUUUE ALLSS SWTTJ JNEEE ZZZDD
 DZZOO JGGPP KKLDD DDDGF FFFFF GGCCC KKKKB CYYYY JUUUU
 UYYYY NMMMM MTTTA WWBBP PUGAA AAAAH HHHAA DDDNN NNERR
 RRRRE EVVVO OOOII ZZZZZ ZMMGG GPPWW WWWL LLVVP PPNNF.

2 5

8

16- ¹LLB²BJ³ ¹JY²NNN ¹NF²MTX ¹WW²UM ¹UE²BAA ¹LS²WT ¹TD²NNN ¹NE²RE ¹ED²ZZO
 OJGGG GPPFW WLLLL IIGGG GCOCK KBCCC CYYYY JJJJU UUYUY
 YUYUY YMMMM TTTAA AAWBB PPUUC CCAA ALHSX XXDDD WFFFF
 RRREE ZZZZZ VVVXX IIIIZ JGGGG GMMWW WLLLV PPPPP NNFFF.

1 3

17- ¹LLCY² ¹JJ²UY³ ¹BB²TTT ¹AW²UUU ¹UU²UE ¹ALLSS ¹ST²TTJ ¹JJ²EE ¹ZZ²EDD
 DZZOO OGGPP KKKDD DDDGG FFFFF FGCCC CCKLC CYYYY JUUUU
 UNNNN NFMMT TAAAA BBBBP PCCAA AEEES SSSXS WWFFF FFEEB
 EEEZZ ZVXXI IIIII JJJJJ JGGGG MWWW WWIIV VVVVI IFFFF.

2 6

9

18- ¹LLC²BB³ ¹JJV²Y³ ¹NN²Y³Y⁴ ¹MM²TK ¹KK²BBP ¹HH²HC ¹CA²EH ¹HSS²XX ¹XDD²WW
 FFRRR ZZZZV VVIZZ ZMMMG PPPPK LLIDD PPPPN FFFLL KBBJJ
 JUUUU NYYYY MMTT TAKKK KKTXX XXXXB BPPPP UUMMM MMRAA
 AALLL LSXXX XDTJS SSSOO XXXOO OJJZM MWWW WLVPV PPPNF.

3 5

Stepping
Wheel
Alph
Seq.

19
5

LLC²BJ J³UN³NN N²FT²TX X¹XW¹JU UEEEE LSWWW WJ²JJ JEE²EZ ZVOZO
OOGGG GPPPP PKLLD DDGGF FL²LLL CRRRR BBJ²JJ YYY²H UUUUU
UUY²YY NY²MMM M²MTA AABBB PGGG CGCAE EHHHA X²DDD DNN²FF
RRRRR EZZZZ VVXXX I²LIIZ ZZMGG GGGWW WL²LLL DD²PPP NNN²FF.

1 5

20

LLCBB JJJU YNNNN F²MMT TAWWU UPPPU UAALL LH²HAA ADDDD
NFR²RR EZZZV VVOJJ J²MMM WPP²KK KL²DD DDD²DG GNN²KK KCC²YY
YUUUU YNNNN F²MMM M²TTT TA²AWW WBB²BB BHH²HH H²CCC CUE²EE
ERS²SS SL²SSS SDD²NE ESS²OO X²VVOO OJJ²JG GM²WWW WV²VPP PII²FF.

3 1

21

LLLBJ JJY²YN NNF²MM TXUUP UUUUE ALLSS SW²TTJ JNE²EE ZZZ²DD
DZZOO JGG²PP KKL²DD DDD²GF F²FFFF GG²CC KKK²KB CYY²YY JU²UUU
UY²YYY N²MMM M²TTA W²BBP PUCAA AAAAH HH²HAA DDD²NN NN²ERR
RR²RE EV²VVO O²III ZZZZZ ZMM²GG GPP²WW W²WWL LL²VVP PP²NFF.

2 5

22

LLC²BJ JU²YYY YFF²KB BXX²HC CRRRR SAT²TT TW²FFF FSS²SO OVOOJ
JOG²GG GPP²PP P²KKKI ID²GGG GL²LLL LRR²RR RRV²VV VJ²JJU UHH²HH
HU²YYY YN²FFF F²MMT T²XXX HUM²MM MU²UE ELLS SS²WWW WJ²JJ
SE²EE ZEE²EE DV²VVV O²IIIZ ZJ²GGG GGG²PP PLL²LL DPP²PP N²FFFF.

1 1

23

LLLCJ JJY²YN NY²MMM TW²UUU MMU²UE EHHSS SW²TTJ JJS²SE ZZZ²VD
DZZOO OGG²PP KKK²ID DDD²GG GGG²GG F²LLL L²CCKB BJ²JJY YHH²HU
UY²Y²YN N²FFF M²TTAA W²WWU PU²UE AAERS SSS²XX DD²WFF FR²RR
EE²EEZ OXX²XI I²IIIO JJ²JJJ JG²MMM M²WWW W²WIV VV²VVP I²IFF.

2 4

24

LLCCY JU²YNY B²PTAW W²WUM UEEEE LSWWW WT²JJJ JSE²EZ ZVZZO
OOGGG GI²PP P²KKLD DDGGG FL²LLL LRR²RR RR²JJY YYY²YU UUUUU
UY²NNN NN²MMT T²TTAA K²KBBB PH²CCC CU²ER RSS²SS SS²WWW WF²NNN
EEEE Z²ZOO XXX²XX O²OOOJ JJ²GGG M²MMW WL²LIV P²PPPI F²FFFF.

1 6

25- LLOCB JJVYY NYYYY MTTTA AABBP PPPHC GAAKH HHHAX XDDDW
 FFRRR EEZZV VVOJZ ZMMMM WWLL KKKII IDDPN NNNKL LCCYJ
 JUUYU NNNNY MMMPT TAAAA KKKBB XXBWW WUUUU UUCCC CAAA
 RRSSS HAAAA ATTJE EEEZZ VVXII IZZZM MIIII IVVPP IIIFF.

34

(10)

26- LLLCY JJUYU BBTTT AWUUU UUUUE ALLSS STTTF JJERE ZZEED
 DZZOO OGGPP KKKDD DDDGG FFFFF FGCCO CCKLC CYYYJ JUUUU
 UNNNN NFMMP TAAAA BBBBP PCCAA AEEES SSSXS WWFFF FFEED
 EEEZZ ZVXXI IIIII JJJJJ JGGGG MWWW WWVIV VVVVI IFFFF.

26

27- LLOCJ JUYYY NFFKX XXXUM MRRRE HATTT WFFFJ JSSEZ ZDZZO
 OOGGG MWWW WKKKI DDGGG GCKKK KBBCC CYYY YJJJU UUYUY
 YNNNN YTTTT TTTAK KKBEX HHCCO CUUBE EHHHA AXDDD DNFFF
 RRRRE ZZZZZ VVVXX IIOOJ JJJGG GMMWW WLLLL DPPPP NNNNF.

12

(14)

28- LLCCO JJJYU BBBB TTTTA KKBPP HHHHC CEEHH HHSXX XDWWW
 FFRRR EERZV VVOZZ ZMMMM PPPKK KLLDD DDPIF FFFLK KBBJJ
 JYYYY NNYB TTTTT FKCKK KTTXX XBBBW WUUUH HHCCO CRRR
 RRSSS SAAAA ATTJS EEEZZ VVVOO IZZZM MMWII IVVPI IIIFF.

36

29- LLOCJ JUNNN NMMTX XWUUM MREEE HATWW WFFJJ JSSSZ ZVVOO
 OOGGG GIPPP PKKKD DDGGG GCCCO LCCO CRVJJ JJJJH HHHHU
 UUYYN NNFFM MMAA AAWWW PPUUU CCURR RSSSX XXWWW WFFFF
 EEEEE OOOOO XXXXV OOOOJ JJMMM MMMWW WLVVV PPPPP FFFFF.

14

(15)

30- LLLCJ JJUYU NNFFM TXHUU MMMME EHHAA SWWWJ JJSEE ZZEED
 DZOJJ ZMMWW LKKII DDDGG GGNNN NNNKL LLLLC CYJJJ JUUYU
 YNNNN YTTTT TAAAK BBBBH HCCAA AEEEH HHHAA TDDNN NNNRR
 RRRRZ ZVVVO OOOII ZZJJJ JGGGG GWWW WWWWL LVVVP PNNNF.

22

31- LLBBB JVVYY NNYYY TTTTA KKBXH HHHHU URRSS SSLSS SWWWW
 FNEEE ZZZOX XXIZJ JGMMM WWLIV VVKII IIIIF NNNKK KBRVV
 VUUUU YYYYY TTTTT TAACK KKKBX XXXXX XHPUU UUMMM CCAAA
 AALSS SSXXX XDDJS SSSOO VVVOO OJZZM MMWWI IVVPP PPIFF.

33

32- LLLBJ JJUUY YNFFF KXHHH CMMMR RHAA AWWWF FJSSS OZZVV
 VZZOO OGGPP KKKII IDDGG GFFFF FGCCC CCCC RJJJJ JHHHH
 HYYYY YFFFF FTTTT XXXXH HMMRR REEEH HLISS WWVWF FJSSS
 SEEEZ ZDDDZ ZO000 JZZZZ ZGGGG GPPPP FWWWL LVVVP PIFFF.

21

33- LLBBJ JYNNT NFMTX WWUUM UEEAA LSWWF TDNNN NERRE EDZZO
 OJGGG GPFWW WLLLI IIGGG GCOCK KBCCC CCYYY JJJJU UUYYY
 YUYYY YMMM TTTAA AAWBB PPUUC CCAA ALHSX XXDDD WFFFF
 RRREE ZZZZZ VVVXX IIIIZ JJGGG GGMWW WLLLV PPPPP NNFFF.

13

34- LLCGB JJJUO NNNNY MMTTA AAWWP PPPPU CAALH HHHXX XWWW
 FFREE OOOOX XVOJJ ZMMM WWIVV VVVII IIIIF FFKKK KBEVV
 VYYYY YBBBB TTTTT FKKKF TTTXX XBBBB BFFFF FUMMM MAAA
 AALLS SSXXX XDDJS SSEZZ VVVOO OZZZM MMWWW WVVPP PPPNF.

32

35- LLKBJ JVYYN NNMMM AWUUU UUCA ALISA ADDDN NNRRR EEEDD
 DOOJJ JGGWW LLLDI IIDGG GGGGN NNLLL LLLLC BJJJJ JUYYY
 YYYYY YMMM TAAAA WWVWP PUEEA AAAAL LLHXX DDDNN FFRRR
 RRREZ ZVVVO OOOII ZZZZZ JGGGG GFWWW WWWV VVVVP PFFFF.

23

36- LLCBB JJVYY NNNNY MMTTK KKBWP HHHHC CAEHH HSSXX XDDWW
 FFRRR ZZZZV VVIZZ ZMMMG PPPPK LLLDD PPPPN FFFLL KBBJJ
 JUUUU NYYYY MMMM TAKKK KKTXX XXXXB BPPP UUMMM MMRAA
 AALLL LSXXX XDTJS SSSOO XXXOO OJJZM MMWWW WLVPP PPPNF.

35

7

Stepping
Wheel Alpha
Seq

37- LLLCY JJUYY BBPTT AWUUU UUUUE ALLSS STTTJ JJEER ZZEEDD
 DZZOO OGGPP KKKDD DDDGG FFFFF FGCCC CCKLC CYYYJ JUUUU
 UNNNN NFMMT TAAAA BBBBP PCCAA AEEES SSSXS WWWFF FFEER
 EEEEBZ ZVXXI IIIII JJJJJ JGGGG MWWW WWWW VVVVI IFFFF.

38- LLCCJ JUYYY NFFKX XXXUM MRRRE HATTT WWWW JSSEZ ZDZZO
 OOGGG MWWW WKKKI DDGGG GCKKK KBBCC CCYYY YYJJU UUUYY
 YNNNN YBTTT TTAK KKBXB HCCC CUUEE EHHHA AXDDD DNFFF
 RRRRE ZZZZ VVVXX IIOOJ JGGGG GMMWW WLLL DPFFF NNNNF.

39- LLCBB JJVYY NNNYY MMTTK KKBBP HHHHC CAEHH HSSXX XDDWW
 FRRRR ZZZZV VVIZZ ZMMMG PPPKK LLDD PPPPN FFFLL KBBJJ
 JUUUU NYYYY MMMMT TAKKK KKTXX XXXXB BPPPP UUMMM MMRAA
 AALLL LSXXX XDTJS SSSOO XXXOO OJJZM MWWW WLVP PPNNF.

40- LLLCJ JJYYN NYMMM TWUUU MMUUE EHHSS SWWTJ JJSSE ZZZVD
 DZZOO OGGPP KKKID DDDGG GGGGG FLLL LCKB BJJJY YHHHU
 UYYYN NFFFM MTTAA WWWW PUUEE AAERS SSSXX DDWFF FRRRR
 EEEEBZ OXXI IIIIO JJJJJ JGMMM MWWW WWWW VVVVP IFFFF.

41- LLOBJ JUYYY YFPKB BXKHC CRRRR SATTT TWFFF FSSSO OVOOJ
 JOGGG GPPPP PKKKI IDGGG GLLLL LRRRR RRVVV VJJJU UHHHH
 HUYYY YNFFF FMMP TTXXX HUMMM MUUEE ELLS SSWW WJJJJ
 SEEEE ZEEEE DVVVV OIIIZ ZJGGG GGGPP FLLL DPFFF NFFFF.

42- LLLBJ JJYYN NFMMT TXUUP UUUUE ALLSS SWTTJ JNEEE ZZZDD
 DZZOO JGGPP KKLDD DDDGF FFFFF GGCCC KKKKB CYYYJ JUUUU
 UYYYY NMMMM MTTA WBBP PUCAA AAAAH HHAA DDDNN NNERR
 RRRRE EVVVO OIIII ZZZZ ZMMGG GPFWW WWWW LLVVP PPNNF.

26

12

35

24

11

25

Steph

43- LLOBB JJJU YNNNN FMMMM TAWWU UPPPU UAALL LHAA ADDDD
 NFRRR EZZZV VVOJJ JMMMM WPFKK KLIDD DDDDG GNNKK KGCYY
 YUUUU YNNNN FMMMM MTTTT TAAWW WBBBB BHHHH HHCCG GUEEE
 ERSSS SLSSS SDDNE ESSOO XVVOO OJJJG GMWWV WVVP PIIFF.

31

44- LLKBJ JVYYN NNNMM AWUUU UUUCA ALLSA ADDDN NNRRR EEEDD
 DOOJJ JGGWW LLLDI IIDGG GGGGN NNLLL LLLLC BJJJJ JUYYY
 YYYYY YMMMM TAAAA WWBFP PUEEA AAAAL LLHXX DDDNN FRRRR
 RRREZ ZVVVO OOOII ZZZZZ JGGGG GPWWV WWWVV VVVVP PFFFF.

23

45- LLCCJ JUNNN NMMTX XWUUM MREEE HATW WVFJJ JSSSZ ZV000
 OOGGG GIPPP PKKKD DDGGG GCCCG LCCCG CRVJJ JJJJH HHHHU
 UUYYN NNFFM MMMAA AAWWW PPUUU GCURR RSSSX XXWWW WFFFF
 EEEEE OOOOO XXXXV OOOOJ JMMMM MMMWW WLWVV PPPPP FFFFF.

14

46- LLCCB JJJU NNNNY MMMTA AAWWP PPPPU CAALH HHHXX XWWWV
 FFERE OOOOX XVOJJ ZMMMM WWIVV VVVII IIIIF FFKKK KBBVV
 VYYYY YBBBB TTTTF FKKKT TTTXX XBBBB BPPPP PUMMM MMAAA
 AALLS SSXXX XDDJS SSEZZ VVVOO OZZZM MMWWW WVVP PPPNF.

32

47- LLLBJ JJUUY YNFFF KXHHH GMMMR RHAA AWWWF FJSSS OZZVV
 VZZOO OGGPP KKKII IDDGG GFFFF FGCCG CCCCR RJJJJ JHHHH
 HYYYY YFFFF FTTTT XXXXH HMMRR REEEH HLLSS WWVFP FJSSS
 SEEEZ ZDDZD ZOOOO JZZZZ ZGGGG GPPPP PWWVL LVVVP PIIFF.

21

48- LLBBJ JYNNN NFMTX WWWUM UEEAA LSWWT TDNNN NERRE EDZZO
 OJGGG GPPFW WLLLI IIGGG GCCCK KBCCG CCYYY JJJJU UUYYY
 YUYYY YMMMM TTTAA AAWBB PPUUC CCCAA ALHSX XXDDD WFFFF
 RRREE ZZZZZ VVVXX IIIIZ JGGGG GGMWW WLLLV PPPPP NNFFF.

13

49- LLLCJ JJUUY NNEFFM TXHUU MMMME EHHAA SWWWJ JJSEE ZEEDD
 DZOJJ ZMMWW LKKII DDDGG GGNNN NKKLL LLLLC CYJJJ JUUY
 YNNNN YTTTT TAAAK BBBBH HCCAA AEEEH HHHAA EDDNN RRRR
 RRRRZ ZVVVO OOOII ZZJJJ JGGGG GWWWW WWWWL LVVVP PPNNF.

22

50- LLCCJ JJJYU BBBB TTTTA KKBBP HHHHC CEEHH HHSXX XDWWW
 PFRRR EEEZV VVOZZ ZMMMM PPPKK KLLDD DDPIF FFPLK KBBJJ
 JYYYY NNYyb TTTTT FKKKK KTTXX XBBEW WUUUH HCCG GRRR
 RRRSS SSAAA ATTJS EEEZZ VVVO IZZZM MMWII IVVPI IILFF.

36

1- LLCBJ JUYYY YFFKB BXXHC CRRRR SATTT TWFFF FSSSO OVOOJ
 JOGGG GPPPP PKKKI IDGGG GLLLL LRRRR RRVVV VJJJU UHHHH
 HUYYY YNFFF PMMTP TTXXX HUMMM MUUEE ELLLS SSWWW WJJJJ
 SEEEE ZEEEE DVVVV OIIIZ ZJGGG GGGPP PLLLL DPPPP NFFFF.

N^o 1

N^o 2

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The original
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alph 1 - 182 letters
 " 2 - 80
 " 3 - 48

alph 1 - 87
 2 - 134
 3 - 139

N^o 3

N^o 4

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alph-107
2-120
3-133

alph-106
2-133
3-121

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Geoph-120
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Geoph-124
2-98
3-138

to close circuit for
 stepping 1 on Wheel #1

for Wheel No. 1

Distribution of alphabets ~~(total)~~
 omitted

Alphabet	Letter No.
1	4 59, 60 133, 134 213, 214 302, 303
2	5 61, 62, 63, 64 135, 136, 137, 138 139 215, 216, 217 304, 305, 306
3	6 65, 66 140, 218, 219, 220, 221 309, 310, 311
4	7 67, 68, 69 141, 142, 143, 144 222, 223, 312
5	8 70, 71, 72, 73, 74 145, 146, 224, 225, 226, 227, 228 313, 314
6	9 10 75, 76 147, 148, 149, 150, 151 229, 230, 231 315
7	11 12 77, 78, 79, 80 152, 153, 154 232, 316, 317, 318, 319, 320
8	13 81, 82, 83 155, 233, 234, 235, 236, 237, 238 321, 322
9	14 15 84, 85, 86 156, 157, 158, 159, 160 239, 240 323
10	16 87, 88, 89, 90, 91 161, 162 241, 242, 243, 244, 245 324, 325, 326
11	17, 18, 19 92, 93 163, 164, 165, 166, 167, 168 246, 247 327, 328
12	20, 21, 22 94 169, 170, 248, 249, 250, 251, 252 329, 330
13	23, 24, 25 95, 96, 97 171, 172, 173 253, 254, 255 331, 332, 333, 334
14	26, 27, 28 98, 99, 100, 101 174 256 335, 336, 337
15	29, 30 102 175, 176, 177, 178, 179 257, 258, 259, 260, 261, 262 338, 339
16	31, 32 103, 104, 105, 106, 107, 108 180, 181, 182, 183 263, 264, 265, 266
17	33, 34 109, 110 184, 185, 186, 187 268, 269 341, 342, 343
18	35, 36, 37 111, 112 188, 270, 271, 272, 273, 274 275 344, 345, 346
19	38, 39 113, 114, 115, 116 189, 190, 191 276, 277, 278 347, 348
20	40, 41, 42 117, 118, 119 192, 193, 194, 195, 196 279, 280, 281 349, 350
21	43, 44 120, 121, 122 197, 198, 199 200 282, 283, 284, 285, 286 353, 354
22	45, 46, 47 48 123, 124 201, 202, 287, 288, 355
23	49, 50, 51 125, 126, 127, 128 203, 204, 205, 289, 290, 291, 292 293, 294
24	52, 53, 54, 55, 56 129 206, 207, 208, 295, 296, 297 358, 359, 360
25	1 2 3 57, 58 130, 131, 132 209, 210, 211, 212 298, 299, 300, 301

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1	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	✓	✓	✓	✓	✓	✓	✓	✓	✓
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26	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	✓	✓	✓	✓	✓	✓	✓	✓	✓
36	✓	✓	✓	✓	✓	✓	✓	✓	✓

Total plus 175

Plus out (to close stepping circuit) on wheel # 2

REF ID: A4127215

Distinction of alphabets

0	1	2	3	4	5	6	7	8	9
1	✓								
2	✓								
3		✓							
4		✓							
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1	4	5	106	107	114	115	116	117	118	119	120	121	122	123																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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7	23	24	25	26	27	28	29	30	31	32	132	133	134	135	136	137	138	139	140	141																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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NO. II28 FROM PARIS AUGUST 7

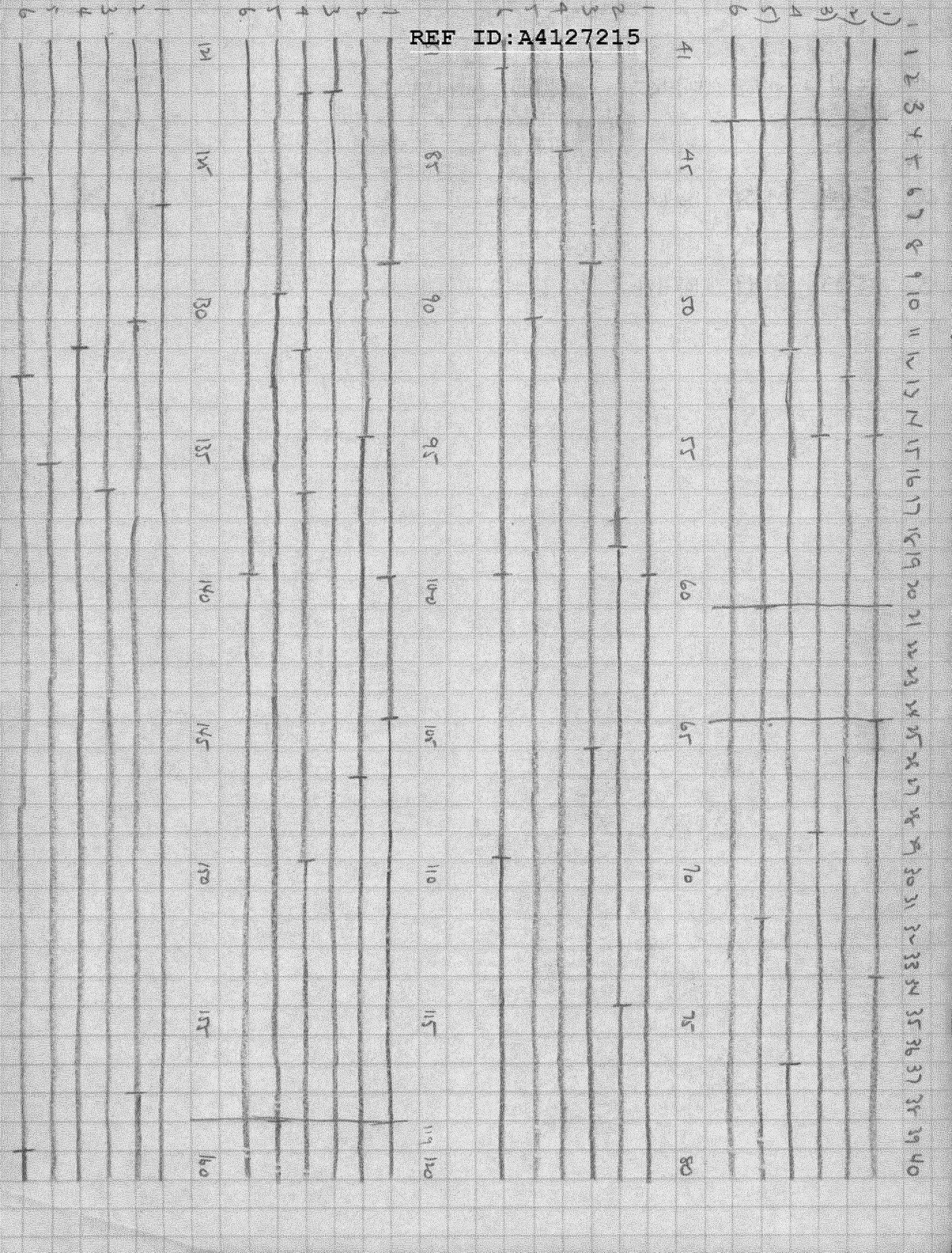
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 JAHTI AIRUB UXMRF JLICJ UYJLG JVIOE DFHTR FGNKZ PXBTD
 AAYRT OJJIB JCMFY CDMZF DFIMT PCLIM XPGCG VTZTY JTOLS.
21 ⇒ GPMGP XDRPU WMWSX IRIWE UEKZC NRXUS GVIOS ALAKM LZWGP
 YFBOU JHYHZ DKNRY JMDDD XSTBI TAKYY ZKPKR OPUTY PKFMS
 UKWJH GIJIX JUYTL AKUDY SWEYO VBRIO RYREU VLNDV KXCDW
 FWSKF IBRUA CEELY CLINE IVHWS ZHCZE HJIBW BFIST EORTN.
 WKIPP HGEKD LEFYD WPDUP ZAGVN WLTDN ONADF SKCGF ZSMKK
 JKYNJ DVPAR KDTAV VZXVU YNRIG XTLDM NUIJC PYKOW IHIYM
 FZZXV GGSZM KMXJG IUWOG ORTDU BZCMR DWELE LKLVI SUDSK
 ALNIM RYWEL FXSVP FAEYC GIPYN ZBXHV NNDZB ZXIGE RGCFG.
 FXMIL PJUKI UJUKC HBROJ RIXZW FNMGL ZTEJT OWVGA TWGSH
 BIIPN EJPBF PXMAL OXHMR KECCB YSUVN INEUD XCZEG LTXFO
 CTDJL BLDRX VEVUS VYLAC RAZOD JRHXB YUXBJ YXXEH TGBZT
 YOHEO VNFUN GUUBH XYJDR KVDUP INMGB JVDMC OZRJW GUOUT.
 GPVOB KMNAM GMMBW TZCPF CVJID RFVXA AEDNB VUPWF LRBK
 KEYUR DNVAD SWZZN ERWHW AUTZJ XPMCR JZWZE CJRPG JLWCN
 WGBCG PWIRE NACHL JEOEF UPTHF EFZTB EXPEL WMGCJ NYKPI
 BNTWN IBEBI NMCSP UDACN DDSZ IEKVP GKOIA JZRWE TEXSJ.
 XMGCK IEVZL FJVDF KTSYD VMAZX TUNVD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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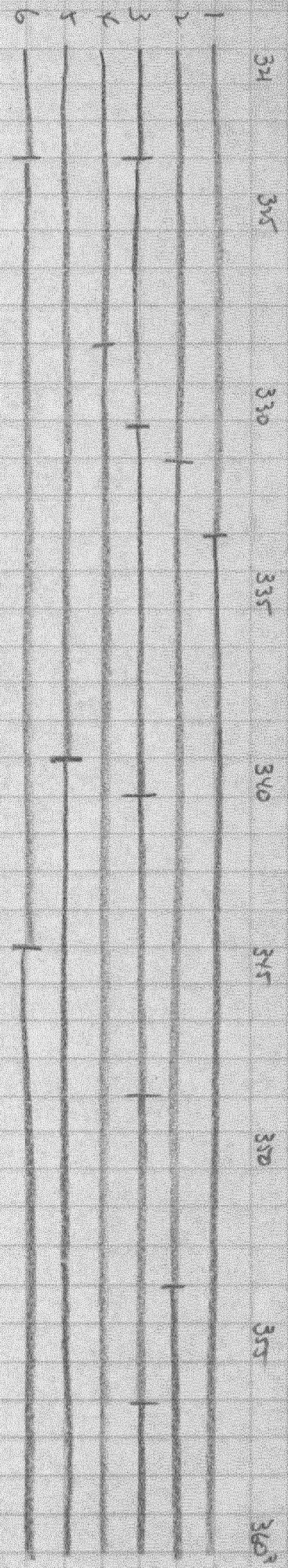
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A	1	L	C	Y	H	B	T	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F
	2	K	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N
	3	C	R	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G

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B	1	Y	H	B	T	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C
	2	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K	B	J	U	Y	M	T	X	H
	3	F	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
C	1	T	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B
	2	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K
	3	A	T	J	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F	K	B	P	U	E	H

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D	1	O	J	G	P	K	I	F	L	C	Y	H	B	T	A	W	U	M	R	S	X	D	N	E	Z	V
	2	Z	O	G	I	V	P	N	K	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D
	3	J	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F	K	B	P	U	E	H	A	T

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E	1	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B	T	A	W	U	M	R	S	X	D	N	E
	2	O	G	I	V	P	N	K	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z
	3	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G	C	R

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	2	I	V	P	N	K	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G
	3	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F	K

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	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
H	1	H	B	T	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y
	2	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K	B
	3	R	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G	C

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
I	1	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B	T	A	W
	2	F	R	E	D	Z	O	G	I	V	P	N	K	B	J	U	Y	M	T	X	H	C	A	L	S	W
	3	Z	M	W	L	D	G	C	R	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O	X	I

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
J	1	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B	T	A	W	U	M	R	S
	2	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K	B	J	U	Y	M	T	X
	3	D	G	C	R	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
K	1	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B	T	A	W	U
	2	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K	B	J	U	Y	M	T	X	H	C
	3	K	B	P	U	E	H	A	T	J	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L	1	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P	K	I	F	L	C	Y	H	B	T
	2	N	K	B	J	U	Y	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P
	3	S	O	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F	K	B	P	U	E	H	A	T	J

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
M	1	K	I	F	L	C	Y	H	B	T	A	W	U	M	R	S	X	D	N	E	Z	V	O	J	G	P
	2	M	T	X	H	C	A	L	S	W	F	R	E	D	Z	O	G	I	V	P	N	K	B	J	U	Y
	3	X	I	Z	M	W	L	D	G	C	R	V	Y	N	F	K	B	P	U	E	H	A	T	J	S	O

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 N 1 | V O J G P K I F L C Y H B T A W U M R S X D N E Z
 2 | L S W F R E D Z O G I V P N K B J U Y M T X H C A
 3 | P U E H A T J S O X I Z M W L D G C R V Y N F K B

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 O 1 | D N E Z V O J G P K I F L C Y H B T A W U M R S X
 2 | E D Z O G I V P N K B J U Y M T X H C A L S W F R
 3 | W L D G C R V Y N F K B P U E H A T J S O X I Z M

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 P 1 | R S X D N E Z V O J G P K I F L C Y H B T A W U M
 2 | S W F R E D Z O G I V P N K B J U Y M T X H C A L
 3 | N F K B P U E H A T J S O X I Z M W L D G C R V Y

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 Q 1 |
 2 |
 3 |

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 R 1 | P K I F L C Y H B T A W U M R S X D N E Z V O J G
 2 | G I V P N K B J U Y M T X H C A L S W F R E D Z O
 3 | H A T J S O X I Z M W L D G C R V Y N F K B P U E

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 S 1 | G P K I F L C Y H B T A W U M R S X D N E Z V O J
 2 | P N K B J U Y M T X H C A L S W F R E D Z O G I V
 3 | L D G C R V Y N F K B P U E H A T J S O X I Z M W

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 T 1 | C Y H B T A W U M R S X D N E Z V O J G P K I F L
 2 | Y M T X H C A L S W F R E D Z O G I V P N K B J U
 3 | G C R V Y N F K B P U E H A T J S O X I Z M W L D

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 U 1 | I F L C Y H B T A W U M R S X D N E Z V O J G P K
 2 | X H C A L S W F R E D Z O G I V P N K B J U Y M T
 3 | Y N F K B P U E H A T J S O X I Z M W L D G C R V

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 V 1 | N E Z V O J G P K I F L C Y H B T A W U M R S X D
 2 | W F R E D Z O G I V P N K B J U Y M T X H C A L S
 3 | E H A T J S O X I Z M W L D G C R V Y N F K B P U

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 W 1 | F L C Y H B T A W U M R S X D N E Z V O J G P K I
 2 | V P N K B J U Y M T X H C A L S W F R E D Z O G I
 3 | O X I Z M W L D G C R V Y N F K B P U E H A T J S

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 X 1 | J G P K I F L C Y H B T A W U M R S X D N E Z V O
 2 | U Y M T X H C A L S W F R E D Z O G I V P N K B J
 3 | M W L D G C R V Y N F K B P U E H A T J S O X I Z

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 Y 1 | B T A W U M R S X D N E Z V O J G P K I F L C Y H
 2 | T X H C A L S W F R E D Z O G I V P N K B J U Y M
 3 | U E H A T J S O X I Z M W L D G C R V Y N F K B P

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
 Z 1 | E Z V O J G P K I F L C Y H B T A W U M R S X D N
 2 | D Z O G I V P N K B J U Y M T X H C A L S W F R E
 3 | I Z M W L D G C R V Y N F K B P U E H A T J S O X

92 NA AYX
76 CVB
63 IXM
70 KCR
9 TWI
33 ZYX

6

11 NB CKM
87 DCE
25 NTL
66 NYJ
16 SYZ
52 XAP

6

57 NC BRH
56 CMK
20 FND
12 INL
44 LGF
58 RDJ
58 RWN
15 VBT
56 YZE

9

23 ND BPT
20 CJW
66 DMJ
16 EEV
68 FGC
21 JXT
50 OYZ
47 TAR
92 TKC
31 TSD
35 XZB
46 ZUN
85 ZWD

13

75 NE CQP
93 ESA
71 FLY
76 GXG
34 JTB
9 YLY
75 ZMW

7

22 NF BKY
17 CEI
80 HTW
36 JNP
16 WET
40 WFS
79 ZFK

7

88 NG BHF
26 IMH
96 JGI
64 SLP
10 YOL
73 ZCD

6

86 NH CTY
70 MDC
41 XRH
10 ZUP
97 ZWL

5

34 NI DHB
39 HEW
44 MAB
10 NPK
3 OGO
2 OPN
77 UHM
24 XXS

8

19 NJ BBE
47 BPK
89 GIX
74 HYO
21 IEJ
83 NKC
15 RFL
84 VOH
27 VWE

9

83 NK CJB
38 LWI
56 JVD
71 WLO

4

26 NL AKZ
67 GIO
79 GJP

FORM-11

452570

FORM-11

452571

6

35 NMDUN
 76 HJB
 33 JHU
 43 UPN

4

78 NNP GW
 81 URV

2

30 NO BMY
 91 DTR
 45 EPA
 99 LPE
 92 NZH
 80 RWX
 91 SQE
 61 SWS
 98 WRX
 75 ZDY

10

36 NPE QS
 78 GWG
 99 HWN
 93 JOB
 10 KYN
 28 WUI

6

8 NRFVS
 31 HPS
 67 INL
 17 JWW
 39 NTG
 88 VAG
 41 VUP

7

89 NS BJI
 93 COY
 10 GKS
 10 MUT
 22 VIC
 47 XOL
 85 ZZT

7

64 NT DFW
 78 EIA
 39 GMR
 89 KSB
 25 LVE
 91 NOS
 13 PEM

7

69 NU AEF
 94 FAF
 43 LZX
 68 MVR
 57 OHW
 24 OWU
 81 RVR
 58 YNW

8

34 NVFIY
 61 MLG
 38 NKI
 87 OMB
 24 OVK
 38 OVU
 96 RKV
 15 URM

8

6 NWGIA
 98 OPI
 58 RRG
 86 ZNH
 49 ZYC

5

69 NXCSU
 26 LKO
 96 MNG
 16 NBS
 35 RYS
 64 VNY

6

11 NYAGN
 2 AZY
 65 EAF
 66 JFW
 35 MHN
 52 MZF
 34 NID
 70 OYF

8

52 NZPAC

FORM-11

452572

FORM-11

452573

92 HGO
42 QWZ
83 SDF
94 TBP
4 THH

7

171

59 OABSU
86 FKB
39 IMX
40 ORZ
39 TAM
66 TZB
98 ZOT

7

53 OBA BR
90 FRE
58 GZO
1 LGD
42 ILX
5 IVX
67 LRV
30 MYP
93 PJV
27 TNJ
49 XTW
10 ZBY
48 ZFY

13

FORM-11

67 OCKLT
88 MWD
91 RMR
46 VJO

452574

4

17 ODFBC
38 RDJ
91 TRC
34 XMJ

4

78 OEDBD
8 FBT
45 PAB
26 ZRY

4

70 OFGPN
48 JTR

2

83 OGBAZ
45 BZK
42 DCI
58 ESA
50 IVS
71 LZW
3 OKE
92 VWJ
72 VYG
33 YHG

10

31 OHDXF
84 HXW
85 TJY
72 TOV
70 TRI
40 VOJ
57 WHI

7

8 OIDPR
47 HCI
18 RWE
20 RWV
61 SDR
71 TOG

6

FORM-11

49 OJDFR
1 KGA
41 XKD

452575

3

46 OKBKW
3 EYM
28 IPL
8 LSK
76 NAC
51 SPE
27 URV
54 XSX

8

29 OLBEE
77 GSM
7 HHX
10 HLY
2 IDC
58 OBG
99 PEV
90 SYP

REF ID: A41272
SYR
WNO
XVW
ZGV

12

87 OM BGA
35 EXH
88 KDE
96 NHZ
58 OLO

5

58 ON CRW
56 CYZ
31 DTS
79 FZF
73 GZC
-96 XMN
-64 XVN
11 YAG
78 YOY
92 ZHG

10

53 00 BAB
85 HTJ
36 PWC

3

452576

FORM-11

30 OPEST
98 IWI
84 JFS
89 JWG
49 KOJ
2 NYA
65 OUH
95 QXE
38 SKP
29 SLL
36 WCP

11

5 ORGFF
79 NLG
38 WJJ
25 WWK
80 WXJ
91 XAO
56 YLE
73 YXR
40 ZPY

9

88 OSING
91 QES
33 RFY
61 WSY
21 XFU
12 XWP

6

95 OT BID
22 BTC
98 BTN
11 MLT
39 OAT
89 OPJ
24 TYN

7

44 OUAIB
46 EGY
24 ETI
27 FSR
65 HWU
63 VOW
55 XDG
23 XUV
2 YRH

9

452577

FORM-11

55 OVBDC
62 DBM
63 HRB
24 KXT
72 RBD
38 UCE
32 WHG
35 XGO
6 XUY

9

74 OWLZF
17 NEC
33 OSR
98 RXJ
13 SGR
25 UDO
63 VMO

7

89 OXAPY
16 AXP
50 BNL
6 CHU
26 FIF

6 CHU
26 ELL
75 FTT
59 FSW
69 KNX
52 WDR

9

23 OY AAH
12 BWQ
70 FGE
27 LVD
93 PPX
15 WVD
50 ZWG

7

75 OZ DYP
19 IXW
76 KEH
17 KKR
20 KYP
92 RMS
22 XKD
84 ZYE

8

FORM-11

452578

180

45 PA BVX
74 BYU
67 HKP
57 HSA
82 HWD
60 HXD
94 LIW
94 PMT
96 XON

9

24 PBOUE
99 XBS

2

55 PC ACU
75 BAI
53 DMU
42 DMU
82 IXH
52 KZB
52 NYM
61 ZIK

8

94 PD APA
20 SBD
18 VBD

3

55 PEECX
51 HCD
41 HCU
3 HXM
13 MUI
36 QSB
30 STR
99 VFY

8

68 PFGYY
36 HUJ
6 HWG
55 PFU
55 UDO
6 VSM

6

FORM-11

452579

84 PGDMG
87 HIC
13 HXE
75 MGC
78 WGO
2 WKO

6

38 PHOPS
81 RUX
99 WNO

3

61 PIHPL
45 UUX
98 WIT
96 WLW

4

49 PJ AHL
4 BTN
4 EBE
83 ECZ
84 FSZ
54 MGW
93 OBP
28 OKI
8 OKL
95 OTB
63 SUV
93 VPD

93 OBP
28 OKA
95 OTB
63 SUV
93 VPD
16 WCL
89 WGJ
97 YYC

15

54 PK DBQ
39 GZB
40 IOA
47 OIH
49 OJD
10 YNH

6

41 PL HLN
87 RGD
69 RVJ
28 VGI
61 YFP

5

FORM-11

452580

57 PM DJF
30 FLR
87 IPL
79 ONF
94 TIZ
56 TOR
83 YFK

7

25 PM BNT
71 EFL
80 FHT
77 IUH
99 PHW
16 RJW
43 ULZ
57 UOH
2 YAZ

9

7 PO LHH
96 MNH
64 NXV
65 UHW
12 YBW

5

67 PP AHK
93 XBC

2

95 PQXEM

1

9 PR AFV
41 ELP
8 KJT
64 LYB
4 VWZ
29 ZTR

6

28 PS ETT
64 GSU
39 KPU
4 KQL
29 LLD
75 MXM
31 SMZ

7

FORM-11

452581

65 PT EGZ
81 JYL
23 LAK
91 LKY
6 LTF
80 ZCU

6

39 PU BNI
44 BPZ
77 KMA
53 LXA
45 VBD
17 XAA

6

11 PV BTC
2 DNI
25 EAH
49 EHY
51 HIR
65 LGX
51 LMY
17 LRK
39 LTC
56 NCC
41 PLH
19 TBA
11 ULD
27 YHJ

30 LHW
28 UID

4

93 PXBCJ

10 GPV
36 LSC
30 RLE
43 VTH
83 ZCO

6

68 PYAHV
40 BRN
83 EPJ
22 KFU
1 RDY

89 WTN
20 ZDF

7

83 PZBYT
13 DNT

79 JGJ
20 KSG
80 NOR
24 NVO
84 YHE
44 YNI

24 YPZ
88 YTG

10

165

12 QBGWR

1

44 QCSME

1

91 QESKS
67 YZB

2

86 QFBZL

1

38 QHWLP

1

46 QKWYC

1

4 QLPRV
59 XHY

2

67 QOBLR

1

75 QPGMG

1

36 QSBUH

1

42 QWZRA

1

452583

54 QXDQU

95 EMS
23 MAY

3

26 QYLMY
32 VLA

2

74 QZJGJ

1

19

70 RAFNH
9 FVM

93 GKA
81 IWP
42 PCD

29 TGT
19 TSJ

7

29 RBBTT
72 DZW

63 WEX
54 YPK

4

91 RCCJP
92 HFH

21 LCD
49 OBX

4

FORM-11

FORM-11

52 CPC
68 FCF
54 FHP
88 GOS
66 ILH
38 JDB
58 JNU
68 JWH
34 NYM
30 PWL
6 TYP
97 YMA
1 YXG

14

452584

7 RE CBG
90 IEC
41 LPE
95 OPQ
98 RYX
79 YOR

6

46 RF AHA
76 KNE
15 LCJ
48 LIY
9 LKB
90 MGJ
8 VSK
33 YUN

8

37 RG BWW
87 DPZ
5 FFD
31 JBT
50 JER
21 JUB
30 LEW
80 PNF
39 PVL
27 PVY
58 XDA
3 ZDA

12

41 RH GFD
77 HPN
11 LOT
57 PAH
31 PSS
1 PYR
73 SRW
2 VCX
35 YSG

9

57 RI JZM
70 MXB
67 NLG
24 XRN

4

452585

5 RJ CKL
52 KTL
55 TJO
17 WWB

4

20 RK CPY
5 FOB
46 FSW
17 IFA
33 IVZ
8 JTR
96 VZP
45 ZPU

8

30 RL EPM
1 FKF
47 HTV
40 LSD
73 NZO
59 TYC
59 VTE
64 YBA

8

77 RM DXX
86 KQF
13 LFH
91 RVH
92 SRN
36 SXA
15 TSO

7

93 RN EES
40 FWF
24 IXX
84 JVO
79 LGJ
39 TGM
49 WZY

7

FORM-11

58 GIV
18 IRW
61 ISD
21 SXF
39 TOA
35 VXG
33 WOS
76 ZKF

452586

9

53 RPCDF
81 HRU
48 KIO
56 NUO
9 RAF
53 ULX

6

26 RQYLM

1

58 RRGXD
51 TZE
23 UEK

3

78 RSCYU
73 DAH
85 JUF

3

91 RTFCM
27 HOB
53 MEI
82 YMH
51 ZEM

5

68 RUBRR
23 EKZ
57 FCZ
23 LMT
25 SJY
81 XSF

6

88 RVAGK
27 FRG
91 HED
69 IUT
69 JZD
23 LCB
85 OOH
81 RWD

78 TFI
47 TMH
41 UPR
77 WVC
84 WZA
67 XGP
62 XWJ
86 YSL

16

81 RWDJT
18 EWP
74 HJT
38 JJQ
58 NCR
45 OGB
73 ONG
48 RFL
28 VGP
76 WAF
25 WKY
88 XJW
29 YYJ

13

91 RXAOC
59 GRL
87 GYL
98 JUK
13 KVI
38 ZSI

6

81 RYJER
56 LENO
87 NVO
31 OHD
35 SBH
26 VHT
95 WCS
98 XOA
73 XRL

9

48 RZIGL
44 LQC
29 PRZ
48 PYB
29 TRB

5

FORM-11

452587

452588

FORM-11

89 SA IAX
 93 LHZ
 52 THS
 71 TNK
 57 WRU
 58 XOX

6

85 SB ANW
 43 CNM
 90 CZN
 20 DHC
 90 GAB
 35 HTR
 89 JIG
 89 MHN
 61 SRO
 36 UHO
 09 YHG

11

95 SC CTV
 99 DPN
 36 HAJ
 93 OYP
 78 YUH

5

73 SD AHY
 95 BBY
 40 CGY
 31 EZD
 83 FCP
 81 LKZ
 62 RVX
 07 SXA
 71 ZJF
 48 ZVC

10

32 SE F IY
 38 LLA
 26 NLA
 19 PDL
 28 TTH
 75 VJZ

6

42 SFE JO
 31 IBA
 51 OKS
 90 OLS
 24 PBO
 81 PTJ
 41 PVP
 76 ROZ
 71 VTH

9

FORM-11

452589

21 SG CZS
 35 EHN
 50 GOX
 10 KSW
 13 RML
 64 SUG
 18 YDT

7

69 SH TSM
 53 XZJ

2

93 SIF NS
 76 GSI
 44 NCL
 88 NGB
 77 OLG
 62 OVD
 30 SYJ
 18 VUB

8

19 SJ CBE
 85 UFL
 42 VXS
 54 WDE
 28 WUC
 80 XEG
 25 YMJ

7

08 SK MDV
 08 OEF
 39 PUB
 04 QLP
 91 SXO

5

86 SL GUG
 29 LDV
 64 PRL
 61 WMC

FORM-11

49 SM AOP
 69 BPL
 79 BVR
 44 EJK
 86 LXS
 56 LYJ
 77 TDR
 10 UTN
 32 WXD
 75 XMN
 38 XOR
 67 ZFK
 31 ZUW

13

52 SN BXA
 75 OZD

2

48 SO BZF
 29 LBE
 15 YWV
 20 ZKY

4

60 SP AHX
 51 EHC
 03 EHX
 80 TZC
 17 VLR
 83 YEP
 79 ZJG

7

91 SQESK

1

92 SR CHF
 06 DTY
 95 EOP
 33 FYU
 21 GJU
 93 NEE
 61 OIS
 27 THO
 73 WON
 76 WWA

10

FORM-11

31 SS MZU
 94 TJW
 34 XOD

3

79 ST BSP
 73 GIU
 53 IMM
 94 JWZ
 30 RDP
 44 SIN

6

64 SUGIV
 98 TLU
 63 VGC
 70 XNA
 59 ZUW

5

62 SV DFA
 22 ICY
 43 ZEX

3

52 SW DMW
 59 FRL
 24 HGI
 28 IXV
 10 LEN
 46 OUE
 61 SYF

7

36 SX AUG
 07 AUW
 21 FUB
 54 LUZ
 34 ODX
 47 OLX
 91 ORX
 59 QLX
 12 WPO

9

96 SY AFU
 61 FSL
 50 JLA
 40 JRL
 30 JTM
 22 LTK
 90 RFM
 82 VMN
 16 ZGN

FORM-11

82 VMN
16 7GN
77 SZ BRH
63 JVI
84 MPG
37 RGB
12 XBH
85 ZTH

9

6

165

40 TAI HF
39 MMT
47 RVT
04 TEZ
79 WES
12 ZSZ

6

19 TB AXK
59 DSX
95 IDB
94 PAL
73 RHS
75 SNO
80 SPT
34 SSX
22 TCB
98 TNO
15 XJH

11

22 TC BDZ
40 EXR
66 GUG
12 UTE

4

82 TD BIG
81 ELN
64 FWX
72 JBU
66 LHQ
05 ORG
77 RMD

7

FORM-11

65 TEGZA
59 HDB
78 IAG
20 LNC
83 PXZ
12 UWW
04 ZTM

452593

7

03 TFAZN
91 CNO
06 HPF
78 IAD
55 KLZ
03 MZV
42 SJV
81 WJY
45 WPI

9

73 TG DER
51 GIE
73 IUT
39 MRO
29 TKD
08 VLX
88 ZKN

7

28 THDAB
04 HYW
71 KLE
43 KVK
27 QBT
52 SWD
85 URS
74 WEP

8

63 TIAJN
05 AYW
97 BCI
26 DLV
53 MMO
18 SIV
94 ZDS
24 ZJI

8

55 TJ ONC
51 TGG
94 WZL
85 YGG
81 YLU

5

FORM-11

22 TKAHN
92 CSR

452594

92 CSR
56 DAY
29 DUM
54 PJM
89 SBM

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23 TL AKR
77 HKA
28 KSW
92 KYH
01 MWM
52 OXW
06 TFH
56 TUM
98 UHM
25 VEA

10

04 TMCPS
53 EIH
47 HRL
11 LTY
86 OAF
02 PVD
80 SDL
74 YAQ
30 YVL
19 ZDA

10

57 TNCBR
10 GYO
41 HXR
89 JGI
27 JVW
71 KWL
91 OSQ
98 OWR
78 TEI
04 ZTH

10

39 TOATA
88 CMW
71 GLZ
72 HTO
31 NDT
89 PJW
56 RYL
72 VRB

8

13 TPEMU
67 PAH
44 UBP

3

32 TQYVL

1

29 TRBBT

1

121

91 TRCCJ

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76 FKN
09 FLK
50 GJE
70 IMX
35 OVX
51 RTZ
48 WRF

8

31 TS DEZ
52 HXZ
44 INC
19 JCB
69 MBP
52 NBX
29 OLB
15 OYW
98 UTL
22 YLT

10

73 TTGDE
28 HDA
29 SOL
24 YNU

4

56 TUMRP
07 REC
41 SFP

3

95 TVBNV

FORM-11

452595

FORM-11

452596

49 TW FVI
80 HCT
10 HZN
09 IRP
69 JNU
97 MBG

6

72 TX CIZ
43 DIV
99 DUV
80 GTM
86 GTM
03 JFW
70 OFG
24 SFP

8

59 TY CHB
11 DEJ
91 JRT
86 LCY
82 MHK
24 NUO
06 PFN
97 PJY
39 RGP
23 RIX

10

66 TZ BNB
65 BWW
21 BZR
80 CUL
51 EMX
05 FYT
46 NDZ
16 OXA
99 PBX
67 QOB
91 TYJ
62 XCY

12

65

452597

FORM-11

69 UA EFL
44 IBD
40 OHV

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18 UB AXM
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22 ITS

3

21 UB MCC

1

6

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44 PZY
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45 VFU

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95 UC DXL
38 EDN
65 LMP
28 PJO

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55 OVB
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55 WAG
01 XBG

6

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23 KZQ
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33 VHF

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452598

FORM-11

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27 SRT
42 XZJ

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36 UG CNF
55 CPF
66 FND
64 IVN
43 KLW
40 TAI
86 TXG

TXG
DRD
ZGE

9

77 UHMMP
98 MNW
36 OOP
81 TDE
65 WUG
82 XBY
78 XJI

7

29 UIDRW
32 FCS
06 IPT
13 YVI

4

36 UJAFD
25 BBI
05 TZF

3

41 UKESF
98 GDW
77 MAZ
97 MVB
94 NZT

5

11 ULDED
80 GPZ
92 IBO
23 MTY
50 WKT
53 XOL
43 ZXH

7

56 UMRPN
68 VRD
30 WOP

3

33 UNAZY
85 DZW
47 JBP
10 SGK
89 TKS
35 XRY

6

42 UOBIL
57 HWH
27 KUR
54 KXS
73 RYX
24 WUD
26 XEI

7

36 UPFHU
63 JSU
57 MDJ
43 NUL
41 REL
10 XGP

6

19 URATS
07 ECB
15 MTS
26 QYL
85 SJU
27 VFR
81 VRW

7

75 USEVJ
41 FPV
25 JYM
56 MLY

4

73 UTBRH
72 DJB
12 EUW
77 LHK
98 LUH
10 NGY
41 USF
69 WJN

8

45 UUXER

1

45 UVBDT
32 COV
63 GCK
23 MND
74 NJH
63 OWV
84 ZOZ

7

FORM-11

452599

FORM-11

452600

43 UVBUI
32 CQV
23 GSK
74 MND
63 NJH
84 OWV
ZOZ

7

59 UWDTB
15 FCI
07 IYK
02 LTM
94 NUF
19 TEL
31 VSF
12 WNC

8

17 UX AAY
55 DGE
45 ERW
70 NAK
38 SEL
81 SFP
23 UVM

7

58 UYNWR
02 RHV
06 XGA

3

54 UZEOL
06 OVX
59 UWD

3

FORM-11

130

452601

69 VAEMI
88 GKO
68 NUM

3

55 VB DCF
76 DJW
45 DIE
18 DYW
15 FAE
48 KFG
95 NVR
97 RDY
15 TBX
11 TCU
70 YON

11

78 VCMRS
32 QVW
48 VBK
02 XJV

4

08 VD ANR
62 BMC
62 FAS
15 MBV
02 NIO
56 USM
28 VET
70 XBO

8

25 VE AHG
25 APV
49 HYH
61 NOS
28 TLK

5

96 VF IJP
34 IYR
26 KSE
27 RGP
45 UBD
99 YJJ

6

FORM-11

63 VGCKG
28 INP
20 PDS
03 XDD

4

452602

33 VHCOG
91 EDM
33 FJV
63 RBW
26 TID
51 TRR

6

13 VI ALB
16 BVP
50 CLN
22 CYA
13 LPG

22
13
78
69
29
CVA
PG
PV
TNT
UTW
WBR

90 VJHSB

64 VJIDF
01 JOJ
93 LXN
46 OKB
65 PVL
67 ZCT
69 ZDJ
75 ZFV

16 VKCNX
07 CXT
28 FPS
43 WIS
18 WTI
24 XTX

32 VL AZB
31 BRG
23 CBR
65 GXJ
48 JJR
63 MGA
51 MYD
34 NVF
17 RKI
40 TCE
08 XDE
51 **KLL**

12 VMALT
09 HXZ
61 LGL
23 NDB
82 NJN
63 OVH
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43 UGK
09 VMH

92 VNAAY
56 CCM
74 JHY
38 KIW
64 TDF
65 YEA
62 ZBA

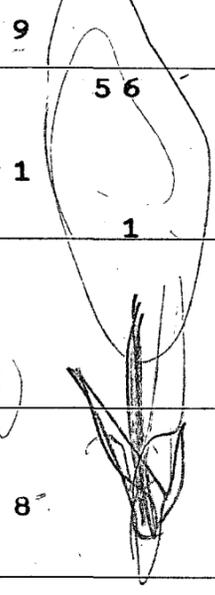
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41 LHL

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21 CLC
68 DJW
79 EYO
96 KVZ
33 OWO
82 TYM
81 WDJ

31 VSFIB
54 JWD
08 KOE
06 MLX
79 TBS
50 YJL

19 VT BAX
59 EHD
78 FIA
71 HKL
43 HKV
47 MHR



FORM-11

452603

FORM-11

452604

18 VUBAX
11 LDE
50 LWK
41 PRE
15 RMT
38 XSE

7

33 VVHCO

1

27 VWEAJ
47 GJS
32 HGA
92 JVN
02 UWL
77 VCM
04 ZAY

7

05 VXFKT
45 FUB
35 GOM
67 GPW
43 SVZ
06 UYX
62 WJJ

7

FORM-11

452605

69 VYBWO
87 DEF
72 GIH
27 HJI
86 SLG
90 YVJ

6

47 VZBLZ
34 CHH
96 CLS
43 EXD
53 IRP
84 OZZ
96 PAX
82 VRT

8

109

65 WABTZ
98 ETS
76 FSF
55 GPE
18 MGF

5

17 WBKOZ
29 RAT
67 VJZ
03 ZFS
68 ZRD
19 ZUW

6

05 WCAMC
16 LKY
36 PXL
95 SRE
58 XID

5

76 WDESR
54 EWI
81 JTF
88 JZG
18 KEJ
85 LMX
52 MWR
52 RDC

FORM-11

452606

59 TBD
82 WMD

10

27 WEAJA
74 PAB
79 SPZ
16 TZO
65 UCL
18 WPD
63 XJU

7

94 WFCGE
15 CIX
62 GH0
44 LTP
66 OAT
59 RLT
30 RXZ
40 SYJ
49 VII

9

46 WGCLJ
6 IAW
89 JFO
47 JSD

47 JSD
 12 MJO
 78 OED
 50 VUL

8

80 WHCTX
 32 GAD
 24 GIW
 80 GYB
 57 ITN
 74 JTH
 68 LIL
 46 ZHD
 10 ZNI

9

09 WIRPR
 43 SBC
 99 TZP
 38 VUX
 87 WPM
 54 WXD
 28 XVK
 07 YKB

8

94 WJFIH
 38 JQH
 62 JYT
 69 NUA
 92 VNA
 72 XTX
 81 YRA
 25 ZUO

8

66 WKAZK
 09 BZE
 60 EMS
 16 MZN
 02 OLI
 71 TOH
 50 TRG
 25 YDC

8

97 WLCBK
 10 ENS
 30 HWN
 48 OFJ
 71 OIT
 38 PHO
 66 TCG
 02 TMP
 96 VZC
 74 ZFA

10

97 WMBGU
 61 CNV
 82 DUH
 02 OUY
 96 PIW
 54 VSI

6

12 WNCIN
 58 CRD
 22 FBK
 17 FCE
 21 JIE
 30 OBM
 45 OEP
 99 OLP
 47 SXO
 85 SZZ
 94 UFA

11

39 WOAIM
 45 GBZ
 73 NGZ
 30 PES
 98 PIW
 33 SRF
 46 UEG
 69 XKN

8

82 WPAHW
 55 CAC
 18 DVB
 45 IUU
 87 MIP
 12 OYB
 24 ZYP

7

12 WQBGW

1

66 WRDIL
 48 FLI
 52 JKT
 05 KFO
 18 OIR

FORM-11

452607

FORM-11

452608

01R
58 R G X
57 H F C
74 W H J
07 X G Y
98 X J U
13 X K V

11

13 W S G R M
61 Y F S

2

04 W T A T E
20 E L N
18 I S I
89 N J G
97 W M B

5

452609

FORM-11

28 W U C P J
25 D O R
65 G W R
29 I D R
05 J T Z
72 T D J
02 W L T

7

78 W V C M R
15 D M B
20 G P D
63 M O V
62 N Z B
31 S F I

6

76 W W A F S
17 B K O
58 C X I
65 E U C
25 K Y D
12 N C I
85 N S Z
07 R X G
37 Y Y O

9

64 W X B F Y
34 C D V
54 D E F
32 D T O
80 J W H

5

98 W Y A W A
46 C W H
20 M G R
29 Y J R

4

04 W Z A Y G
75 K E L
94 L D W
50 L S G
86 N H C
42 R A P
49 Y C F

7

FORM-11

182

452610

17 X A A Y S
91 O C R
52 P C K
51 P V L
89 P Y W
36 U G C
07 U W I
32 X C I
16 X P J

9

93 X B C J M
42 E M I
64 F Y C
01 G V J
12 H Y B
50 N L J
70 O H T
99 S C D
70 T V B
82 Y V Z

10

34 X C D V L
06 H U I
32 I N M
72 I Z Y
69 S U X
62 Y M L

6

58 X D A H O
03 D A T
54 E F R
08 E P J
55 G E U

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43 KZP
54 OUX
51 SFO
32 TQY
99 UVV

12

80 XEGJF
26 IFA
95 MSC
45 RWO
73 TTG
13 XPZ

FORM-11

452611

6

31 XFAJB
05 KTD
39 PKG
59 SWF
21 UBM
45 UBV
78 VIT

7

06 XGAGJ
85 DIU
87 KYT
76 NMH
35 OME
02 PGW
10 PVU
67 PWB
59 RLV
07 SDS
86 TMO
80 TMS
01 UDX
07 YLE

14

82 XHBTD
35 FZX
43 HCD
82 SYV
59 YCW

5

58 XIDJO

1

03 XJFWB
15 HUW
78 IZI
27 KDO
65 MXO
98 UKG
63 UPJ
02 VWU
80 WHG

9

FORM-11

41 XKDIT
22 DOT
35 DXU
15 FNJ
19 MKD
69 NXC
13 VIL

7

452612

08 XLCFI
95 DCM
26 KOE
51 LZZ
36 SCH
56 TKD
54 UZE

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23 XMAYB
33 BVR
04 HFA
77 IUT
34 JEB
63 MTI
75 NEC
96 NGJ
18 WDK

9

70 XNAKC
16 BSY
92 DTK
93 PJO

4

98 X0AZO
34 DXM
70 FGP
47 LXV
53 LZG
96 NXM
65 POU
38 RWJ
91 RXA
59 XFS

FORM-11

59 XQLXH

452613

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41 XRHGF

57 IJZ

30 LEP

73 LNZ

24 NIX

40 PKI

85 VOO

35 YSB

8

71 XS ATN

95 DBB

38 ELL

90 FOL

24 FPB

81 FPT

71 FVT

06 RDT

43 VZE

24 WHG

54 XLU

11

55 XTFKL

07 URE

49 WFV

10 WHZ

72 XCI

24 XSF

21 ZBZ

7

89 XUNTK

36 PFH

23 VMN

94 WNU

06 YXG

5

28 XV KFP

65 NYE

43 THK

47 W G J

4

19 XW BZU

52 DRD

62 FGH

62 JJY

12 POY

85 WNS

6

77 XX MIU

24 SWH

2

35 XZ BFR

83 COG

53 JGY

42 JKT

33 JLB

30 SIS

09 WKB

7

169

23 YA AHY

96 FUG

11 GNB

68 HVA

22 MFZ

74 QZJ

98 WAE

32 XAX

02 ZYA

02 ZYZ

10

64 YB AZP

12 AZW

80 FSJ

23 OUX

40 RNF

69 WOX

12 WQB

74 WRW

8

49 YC FKM

34 FNY

59 HBB

97 LDC

53 LRP

64 VJI

46 WHZ

60 WKE

8

FORM-11

452614

FORM-11

86 YD BZB

452615

86 YDBZB
25 CAR
87 EFW
11 EJJ
84 IYZ
11 JEB
18 TMZ
09 ZKL

9

65 YEAFW
84 FGD
83 PJE
13 SEP

4

71 YFFCF
70 GEH
83 KSP
61 PCZ
61 SLW

5

48 YFSOB

1

95 YFUCD

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4 YGAIK
85 GEF
72 IHC
46 TZN
48 VLJ

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84 YHEYU
09 GIN
33 GXM
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92 LUL
70 TXO
49 ZLH

7

FORM-11

72 YIDZM
07 GPO

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452616

01 YJERH
66 FWL
99 JHT
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40 RLL
91 RTF
29 RZP
56 TLT
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9

07 YKBVK
22 FUB

2

86 YLCYD
07 EHY
56 ENK
27 MYU
22 TKA
81 UHT
28 VDV
09 YDZ

8

97 YMAHC
20 GRK
03 HDK
82 HKM
35 HND
25 JGP
62 LHW
61 LSB
40 UGT
52 ZFG

10

63 YNAIX
10 HZU
34 IDH
44 IMA
24 UOW
87 VOM
58 WRR

7

FORM-11

31 YOHDX
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74 WLZ
70 YFG

6

452617

75
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FNW
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 NRJ
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 XRL
 YKF
 ZKS
 ZNV

11

81
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 01
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 02
 23
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YRAIW
 DNY
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 GPV
 HVC
 IXR
 RUE

8

35
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 17
 73
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YSBHT
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 LGU
 PVL
 TGI
 ZRG

6

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 74
 87
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YTEPX
 GZK
 IAY
 MYA
 VYD
 ZXC

6

78
 33
 10
 27
 41
 74

YUHXJ
 NAZ
 NSG
 OKU
 TUS
 VNJ

FORM-11

452618

84

VZO

7

26
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YVHTI
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YVJHS

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 31
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YVJPV
 LAZ
 LBR
 MNJ
 ZVR

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18
 68
 05
 95
 04
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YWAMG
 BZR
 CAM
 CSR
 TAT
 TNJ
 VDM

7

06
 01
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 73
 10
 33

YXGAG
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 NDT
 OAZ
 RLN
 TWH
 ZJL

7

97
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YYCLD
 JRZ
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 WBZ
 YWB

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67
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 16
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YZBSM
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 EXL
 GNF
 OPJ
 VIB
 WGV

8

FORM-11

452619

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74
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ZAIBF
 NGI
 YGA
 YVJ

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62
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ZBAGS
 ERH

62 ZB AGS
 35 FRH
 47 LZG
 86 MII
 66 NBN
 47 NDT
 77 RHH
 52 SAT
 79 SMB
 67 SMZ
 32 UVC
 65 WWE
 83 YTE
 10 YUM
 39 ZGB
 21 ZRO

16

73 ZC DKL
 81 GJZ
 34 HHY
 96 LSY
 83 OGB
 67 TPP
 80 ULG

7

03 ZD ACT
 19 AUR
 20 FOI
 69 JGV
 31 JRY
 45 MGO
 13 NTP
 94 SST
 75 YPC

9

09 ZE CFO
 22 CWN
 51 MXA
 54 OLT
 43 XDK
 02 XGP
 56 XLT

7

74 ZF AZA
 83 DIY
 52 GTS
 67 KGL
 79 KTA
 03 SPE
 75 VMP
 48 YGV
 05 YTI

9

39 ZG BNR
 96 EVF
 88 IFZ
 16 NFW
 53 VZI
 47 WNS

6

46 ZH DOC
 92 GOZ
 97 IWT

3

78 ZI FLR
 48 GLE
 61 KJY
 48 KPJ
 93 RAG
 53 RPC
 77 RVW
 19 XWB

8

71 ZJ FEF
 79 GJB
 74 GJK
 53 GYC
 57 IIU
 24 IOT
 42 KTF
 33 LBF
 63 VLM

9

75 ZK ELH
 76 FHT
 17 KRO
 66 LAT
 09 LSB
 88 NRV
 20 SGC
 20 YPZ

8

83 ZL CPZ
 01 CTL

FORM-11

452620

FORM-11

452621

48 KPJ
93 RA6
55 RPP
77 RVW
19 XWB

8

71 ZJ FEF
79 GJB
74 GJK
53 GYC
57 I IU
24 IOT
42 KTF
33 LBF
63 VLM

9

FORM-11

75 ZK ELH
76 FHT
17 KRO
66 LAT
09 LSB
88 NRV
20 SGC
20 YPZ

452621

8

83 ZL CPZ
01 CTL
94 DWF
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44 QCS
87 RYN
50 SGG

7

57 ZM NLJ
72 OGV
84 PGD
75 WZK

4

16 ZN DEE
46 DZU
34 EJT
86 HCT
10 INP
03 IOG
80 ORW
91 TNO
24 VOV

9

58 ZO GES
84 PJF
98 TBT
06 VXU
16 XAX
73 XET
23 YAA
84 ZZ Y

8

96 ZP AXO
99 BXB
61 IHP
95 JOT
29 RZT
64 SGS
45 UVB
17 UXA
51 VHT
43 XVT
40 YBR

11

FORM-11

67 ZO OBL
42 WZR
23 XMA

3

42 ZR APC
68 DFG
64 DFH
88 DGO
46 FAH
37 GBW
55 JTJ
92 MSR
84 NJV
21 OSX
81 PHR
26 YVH

12

83 ZS DFC
30 ISY
21 RGJ
12 ZXB

4

94 ZT BPA
04 HHY
85 HUR
04 MCP
88 OCM
29 RBB

452622

FORM-11

99 AXU
 95 BXB
 29 JOT
 64 RZT
 45 SGS
 17 UVB
 51 UXA
 43 VHT
 40 YBR

452622

11

67 ZQOBL
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 23 XMA

3

42 ZR APC
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 64 DFH
 88 DGO
 46 FAH
 37 GBW
 55 JTJ
 92 MSR
 84 NJV
 21 OSX
 81 PHR
 26 YVH

12

83 ZS DFC
 30 ISY
 21 RGJ
 12 ZXB

4

94 ZT BPA
 04 HHY
 85 HUR
 04 MCP
 88 OCB
 29 RBB
 91 YJR

7

47 ZUNJB
 25 OXE
 10 PXG
 59 WDT
 19 WTE
 31 WVS

6

FORM-11

48 ZV CVB
 03 GXD
 16 IBY
 82 RTY

452623

4

85 ZW DLM
 12 GMJ
 50 GUV
 72 JXT
 09 KBZ
 71 KTO
 97 LCB

7

12 ZX BHY
 62 CYM
 43 HHC
 22 KDO
 35 KDX

5

02 ZY AZY
 49 CFK
 84 EFG
 84 HEY
 72 IDZ
 44 NIM
 24 PZN
 88 TGZ
 33 XZJ
 02 ZEX

10

44 ZZ DMG
 93 IRA
 51 PVH
 85 THU
 84 YEF

5

188 4329

FORM-11

452624

52

87
30
110
17
1127

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 - "R-AS-FOLLOWS-"
 XT XK BWCFRBSAFOVXF TACHROXQEHMRY 0451
 NXUUEM&UVALOCUBKAXMNEBYFRWBQPP 0481
 CAWMNMWUQRSSMSXKHDJDSKMSTQRNRR 0511
 JUOGWADHQIYABIPODMALIARNSXIBVO 0541
 JVGQBCEXUEUFROLKXFQQDLAVGTRHWM 0571
 RFXNHTMATUHTAENFQUAMHKBRBNIWDX 0601
 PJDGHLJFJSBOSIVBDYJDBWVUFDLPLA 0631
 SWNUTGTSBNILIHNOKPSDNBVBIGVXAC 0661
 RNRRFVBI OHGMWXRPAWGICGBXQEWTI 0691
 VGN YFLFRPCERWYBGKIXFCMCLWCPQYQ 0721
 LCTJHGTHHCKMVGLBMTPEYYNPVVFNH 0751
 QCAECKDPLLGBJTCISGOKPIQQPJFBBR 0781
 KPIRUVDPNEFWFHF RSLMEOWBHOIYTMN 0811
 XPJOXPXNRGVHAPJHKSQARNYHBMAIXH 0841
 PRKUNHGUJBOSGVIVPDREVUOIDITQWF 0871
 SWKQHXRTASMTBBOCBLU1QCXOWCBK&N 0901
 SANQXAGVDTMGKJMDGTYKJHYVLDEROQ 0931
 RWWAELJNFNJNVGHKSMDWKPRWATQTHF 0961
 XYHADQXKIVTXEMUADUHIRBICSEBVSM 0991
 ENYWHYREUBKIHVVBUQNHWPYEF GFKGL 1021
 GEXMBCFJVHTOIOVRKVCQRQBVCXENXT 1051
 DUTRND DOTNUXPDRGLISHURQRRJADU 1081
 ACNJCEVBOHCTSKJHBEYEUYADWWMMYU 1111

090702

FORM-11

~~ABCDEFGHIJKLMN OPQRSTUVWXYZ~~

44-6540

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
44	63	40	40	43	37	47	51	42	32	40	33	40	42	49	40	49	53	42
T	U	V	W	X	Y	Z	1	2	3	4	5	6	7	8	9			
43	50	52	45	51	33	1			1	1	3	1	1	2	1			

3 (11) 01 TPLSS YBLNT GJOPE IQCLX A0ZSA AZ

4 (11) 01 BARWW MLAPE OCSEW NQGAT IVYKW WE

123 EOKPP FIVCU YUVIZ TQZVD XYDAV V⁴⁵⁶OMDF EWNBO VRNWL FQING PGBIU U

709 MLBEE CMRUA NIMAJ DQWRL FKAER R0

008 NWSNN RAIHD ZGRXM YQOIE VZHPO 0

11 TPLDW YLIPE FCSXF LQOJC SHDAH M

21 TPRSS YLUND FCOAR BQMFA KTZDV C

31 TPISW YDENP FCYIF MQGJC RGKDG 0

41 TPLSS YBLNT GJOPE IQCLX A0ZSA A

(1) A B Y L I P J V (2) N X R W
 (2) A H T Y J K P I O Z E F S
 (3) M L G R Y F B U H T S X Z

A B C D E F G H I J K L M N O
 P R S T U V W X Y Z

A
B
C
D
E
F
G
H

12
76

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(

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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ABCDEFGHIJKLMNOPQRSTUVWXYZ

||
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ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

A

Stepping Wheel No 1
Block type No 1

Cypher Text
Comm. #
Alph.

1	ERY JERHPYRDYXGUDXBGVJJJJKGARLF	A
	11122222222333322222111113333	1
	AABBCCDEEEEFFGHHHHIJJKKKKLMNN	1 - Stepping wheel

2	KFFOBIGDAZLCTLMWMOUYRHVCXJVVWUW	A
	32222233331111122222111111111	1
	NN0000PPRRSTTUUVVVVWWWWWXXXY	1

62	LTMPVDNIOPNYAZYAZYZEXGPGWKOLID	A
	13333311111333333333222221111	1
	YYZZZZAAAABBBBBBCCCCCDDDDDD	1

3	CRGZDACTFMZVGXDDATFAZNIOGOKEYM	A
	12222233332222222222111113333	1
	DDEEEEFEEEEFFGGGGHHHHIIJJJJJKK	1

4	HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
	32222222223333331111222221111	1
	KLLLLMMNNNN0000PPPPRRRRSSSS	1

101	JBTNZTHHYWTATEZTMCP SKQLPRVWZAY	A
	13333311111111133333222221111	1
	TTTTUUUVVVVVVWWWXXXYZZZZ	1

Stepping Wheel /
Block type 3

13

A

NRS
~~ERYJERHPYROYXGUDXBGVJJOJKGARLF~~ A
 112222333333222111113333222223 3
 AABBCCEEEEFFGHHHHIJJKKKKLLMNNN 1

~~KFFOBTGDZLCTLMWMOUYRHVQXJVVUW~~ A
 3111111222222222111111113333331 3
 NN0000PPRRSTTUUVVVVWWWWWXXXY 1
 OIRWEWPDVBDYW

~~LTPVUNIOPNYAZYAZYZEZXPQGWKOLID~~ A
 113333333222111111112222222333 3
 YZZZZAAABBBBCCCCCDDDDDD 1

~~CRGZDACTFMZVQXDDATFAZNIQGOKEYM~~ A
 322222222111111111333333222222 3
 DEEEEEFFFFFGGGHHHHIIJJJJJJJKK 1

~~HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP~~ A
 223111111222222222222211111133 3
 KLLMMNNNNNO0000PPPPPPRRRRRSSSS 1

~~JBTNZTHHYWTATEZTMCPQSKQLPRVWZAY~~ A
 333331111111333333322222222111 3
 TTTTUUVVVVVVWWWXXXYZZZZZ 1
 OIRWVGPDSDHC

Stepping W #1
Block type #4

A

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	
ERY	JER	HPY	RDY	XGUD	XB	GVJ	JJKGARLF
111	122	233	333	222	222	111	1133333322
A	ABB	CCD	EEEF	FGH	HHI	JJK	KKKLLMNN
							1

<u>8</u>	<u>9</u>	<u>10</u>					
KFF	OBIG	DAZ	LCT	LMW	MOUY	RHV	CXJVVWUW
222	333	333	311	111	122	222	222221111113
NN	000	0PP	PRR	STT	UUU	VVV	VVVWWWXXXY
							1

<u>1</u>	<u>2</u>	<u>3</u>					
LT	MPVD	NIOP	NYAZ	YAZ	YZEX	GP	GWKOLID
333	333	333	311	111	111	133	2222222111112
YY	ZZZ	AAA	AAA	BBBB	BBBB	CCCC	CCCCDDDDDD
							1

<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>				
CRG	ZDA	CTFM	ZV	XDD	ATFA	ZNI	OGOKEYM
222	233	333	322	222	111	111	113333322311
D	EEEE	EEF	FFFF	FGG	GGH	HHI	IJJJJJKK
							1

<u>7</u>	<u>8</u>	<u>9</u>					
HDK	BTXJ	FWBZ	FSPE	HXM	HFA	PJEB	EKKEP
111	111	122	222	222	222	111	1133333333331
KL	LLM	MMN	NNN	O000	0PP	PPR	RRRRSSSS
							1

<u>10</u>							
JBT	NZTH	HYW	TATE	ZTM	CPSK	QLPR	VWZAY
111	111	133	333	333	333	222	22222211111
TTT	TUUU	VVV	VVV	VVV	VVV	WWW	XXXYYYYZZZZ
							1

Stepping Wheel #1
Block type #5

A

WLI
 1 2 3 4 5 6 7
 ERY JERHPYRDYXGUDXBGVJJJKGARLF A
 111222233333322221133333322222 5
 AABBBCCDEEEFFFGHHHHIJJKKKKLNNN 1

8 9 10
 KFFOBIGDAZLCTLMWMOUYRHVCXJVVWUW A
 22333311111122222222111111333 5
 NN0000PPPRRSTTUUVVVVWWWXXXY 1

1 2 3 4
 LTMPVDNIOPNYAZYAZYZEXGPGWKOLID A
 33331111113333322222111122222 5
 YYZZZZAAABBBBCCCCDDDDDD 1

5 6 7
 CRGZDACTFMZVGXDDATFAZNIOGOKEYM A
 222223222222221113333322222223 5
 DDEEEEEEFFFFFFGGGGHHHHIIJJJJJKK 1

8 9
 HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP A
 333311111122222222111111333 5
 KLLMMMNNNN0000PPPPRRRRSSSS 1

10 11 12
 JBTNZTHHYWTATEZTMCPKQOLPRVWZAY A
 33333332222333333332222221 5
 TTTTUUVVVVVWWWXXXYZZZZ 1

Stopping wheel #1
Block type #6

A

¹	²	³	⁴	⁵	⁶	⁷	⁸	⁹	¹⁰	¹¹	
ERY	JER	HPY	RDY	XGUD	XBGV	JJOK	JG	AR	LF		A
1	1	1	1	2	2	2	3	2	1	1	1
A	A	B	B	C	C	D	E	E	E	F	F

¹²	¹³									¹⁴	
KFF	OBI	GD	AZL	CTLM	WMOU	YR	HV	CX	JV	WU	W
2	3	3	3	3	1	1	1	1	2	2	2
N	N	O	O	O	P	P	P	R	R	S	T

		¹				²	³	⁴			
L	T	M	P	V	D	N	I	O	P	N	Y
3	3	3	3	3	1	1	1	1	1	3	3
Y	Y	Z	Z	Z	Z	A	A	A	B	B	B

	⁵		⁶	⁷				⁸	⁹		
C	R	G	Z	D	A	C	T	F	M	Z	V
3	3	3	3	3	2	2	1	1	1	1	1
D	D	E	E	E	E	F	F	F	F	F	G

		¹⁰	¹¹			¹²	¹³				
H	D	K	B	T	X	J	F	W	B	Z	F
1	1	1	1	2	2	2	2	2	2	2	1
K	L	L	M	M	M	N	N	N	N	O	O

						¹⁴					
J	B	T	N	Z	T	H	H	Y	W	T	A
1	1	1	1	1	1	1	1	1	3	3	3
T	T	T	T	U	U	V	V	V	V	W	W

A

1	2	3	4	5	6	7	8	9	
ERY	JERHPY	RDY	XGUDXB	GVJJO	JKGARLF				A
1111	2222	2233	3222	2111	1113	3333			2
AA	ABCC	CDDE	EEFF	FFGH	IIJJ	JJKLL	MM		2

					10	11	12	13	14	
KFF	OBIGD	AZL	CTLM	WM	DUYR	HV	CX	JV	WUW	A
2222	3333	1112	2222	2111	3333	3333	1111			2
MNNN	000P	PPRR	RRSS	STTU	UUUV	VVWW	XXXY			2

					1	2	3	4	
LTMP	VDNIO	PNYA	ZY	AZY	ZEX	GP	GWK	OLID	A
3333	3332	2222	2111	1111	1111	2222	2223		2
YYY	ZZZZ	ZZZZ	ZAAA	AAAA	ABBB	CCCC	DDDD		2

	6	5					7	8	
CRGZ	DACT	FMZ	VG	XDD	ATFA	ZNIO	GO	KEYM	A
3333	3211	1111	1133	3332	2222	2222	2333		2
DEEEE	EEFFF	GGGG	HHHH	IIJJ	KKKK	KKKL			2

	8	9					10			
HDK	BTX	JFW	BZ	FS	PE	HXM	HF	AP	JEBEKKEP	A
3333	3311	1111	1222	2222	2111	1111	1113			2
LLL	MMNN	0000	PPPP	PPRR	SSST	TTTT				2

	12	11			13	14				
JBT	NZTH	HYWT	A	TEZ	TM	CP	SK	QL	PRVWZAY	A
3311	1111	1113	3333	3333	3332	2222	2222	2221		2
UUUU	UUUV	VVVV	VWWW	WWWW	WXXX	XXXY	YYZZ			2

A X J G	A X G E	A Y P R
A Y U X	A X Y E	A Y M O
A X M O	A Y W C	

302

A

ERY JERHPYRDYXGUDXBGVJJJJKGARLF	A
112222333333222111113332222223	3
AAABCCCDDEEEFFFGHIIJJJKKLLMM	2

KFFOBIGDAZLCTLMWMOUYRHVCXJVVUW	A
311111122222222211111113333331	3
MNNN000PPPRRRSSSTTUUVVWVXXXY	2

LTMPVDNIOPNYAZYAZYZEXGPGWKOLID	A
113333333222111111112222222333	3
YYYZZZZZZZZZZAAAAAABBCCCCCDDDD	2

CRGZDACTFMZVGXD DATFAZNI OGOKEYM	A
3222222222111111111333333222222	3
DEEEEEFFFFFGGGGHHHHIIJJKKKKKKL	2

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
2231111111222222222222211111133	3
LLMMNNN0000PPPPPPPRRSSSTTTTTT	2

JBTNZTHHYWTATEZTMCPSKQLPRVWZAY	A
33333111111133333322222222111	3
UUUUUUUVVVVVVWWWWWVXXXXXYZZZ	2

ERY	JERHPYRDY	XGUDXB	GVJJ	JKGARLF	A
1111	2223333	22222	11111	33333322	4
AA	ABCCDDEE	EEFFFGH	IIJJ	JJKKLLMM	2

KFF	OBIGDA	ZLCTLM	WMOUYR	HVCX	JVWUW	A
222	333333	11111	22222	22222	1111113	4
MNN	N000PP	PRRRS	SSSTT	UUUVV	VWXXXY	2

LT	MPVDNIO	PNY	AZY	AZY	ZEXGPGW	KOLID	A
333	333333	11111	11111	13322	22222	111112	4
YYY	ZZZZZZ	ZZZA	AAAAA	ABB	CCCCC	DDDD	2

CRG	ZDACTFM	ZVG	XDDAT	FAZNI	OGOKEYM	A
222	233333	2222	11111	11333	3322311	4
DEE	EEEEFF	FFFGG	GGHHH	IIJJ	KKKKKKL	2

HD	KBTXJ	FWBZF	SPEHX	MHFAP	JEBEKKEP	A
111	11112	22222	22211	11133	3333331	4
LLL	MMNNN	0000P	PPPP	PPRR	SSSTTTT	2

JB	TNZTH	HYWT	ATEZT	MCPSK	QLPRV	WZAY	A
111	11113	33333	33332	22222	22211	1111	4
UUU	UUUVV	VVVV	WWWWW	WWW	XXXXX	YYZZZ	2

52

A

WRX

ERY JERHPYRDYXGUDXBGVJJJKGARLF	A
11122223333332222113333332222	5
AAABCCCDDEEEFFFGHIIJJJKKLLMM	2

KFFOBIGDAZLCTLMWMOUYRHVCXJVVWUW	A
223333111111122222222111111333	5
MNNNOOOPPPRRRSSSTTUUVVWVWXXXY	2

LTMPVDNIOPNYAZYAZYZEXGPGWKOLID	A
3333111111333332222111112222	5
YYYZZZZZZZZZAAAAAABBCCCCDDDD	2

CRGZDACTFMZVGXDDATFAZNIOGOKEYM	A
2222322222221113333322222223	5
DEEEEEFFFFFGGGGHHHHIIJJJKKKKKKL	2

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
3333311111112222222111111333	5
LLMMNNNOOOPPPPPPPRRRSSSTTTT	2

JBTNZTHHYWTATEZTMCPKQLPRVWZAY	A
3333333322222333333322222221	5
UUUUUUUVVVVVVWWWWWWWXXXXXXYYZZZ	2

A

SGCZ

ERYJERHPYRDYXGUDXBGVJJJJKGARLF	A
1111122232111111111113333322222	6
AAABCCCDDEEEFFFGHHIIJJJKKLLMM	2

KFFOBIGDAZLCTLMWMOUYRHVXCXJVVWUW	A
2333333111112222222222211111133	6
MNNN000PPPRRRSSSTTUUVVWVWXXXY	2

LTMPVDNIOPNYAZYAZYZEEXGPGWKOLID	A
3333311111133333321111122222222	6
YYYZZZZZZZZZAAAAAABBCCGCCDDDD	2

CRGZDACTFMZVGXDDATFAZNIOGOKEYM	A
33333322111111333333222223331	6
DEEEEFFFFFGGGGHHHHIIJJKKKKKKL	2

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
11112222222111111111133333333	6
LLMMNNN0000PPPPPPRRRSSSTTTT	2

JBTNZTHHYWTATEZTMCPKQLPRVWZAY	A
111111111133333333222222111111	6
UUUUUVVVVVVWWWWWWWXXXXXYZZZ	2



A

2-1

NMJ

ERY JERHPYRDYXGUDXBGVJJJKGARLF	A
1112222222333332222111113333	1
AABBBCCCDEEEEEFFFFGGGHHIIIIJ	3

KFFOBIGDAZLCTLMWMOUYRHV CX J VWUW	A
322222333331111122222111111111	1
JKKLLLLLMMMNNNOOPPPRRRRRSSSTUU	3

L TMPVDNIOPNYAZYAZY ZEXGPGWKOLID	A
133333111113333333332222211111	1
UVVVVWWWXXXXXYYYYYYZZZZAAABBCC	3

CRGZDACTFMZVGXDDATFAZNI OGOKEYM	A
122222333332222222221111133333	1
CDDDEEEEEFFFFFGGGGGGHHHHHHH	3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
322222222233333111112222211111	1
HIIIIIJJJJJKKKKKLMMMMMMMMNOP	3

JBTNZTHHYWTATEZTM CPSKQLPRVWZAY	A
1333331111111111333332222211111	1
PPRRSSSTTTUUUVVWWWXXYYYYYZZ	3

msw

A

ERYJERHPYRDYXGUDXBGVJJJKGARLF	A
111122222233332222111111333333	2
AABBBCCCDDEEEEEEFFFGGGHHIIIIJ	3

KFFOBIGDAZLCTLMWMOUYRHV CXJ VWUW	A
222233331112222221113333331111	2
JKKLLLLLMMMNNNOOPPPRRRRSSSTUU	3

LTMPVDNIOPNYAZYAZYXGPGWKOLID	A
3333332222221111111122222233	2
UVVVVWWWXXXXYYYYZZZZAAABBCC	3

CRGZDACTFMZVGXDDATFAZNIOGOKEYM	A
333321111111333322222223333	2
CDDDEEEEEFFFFFGGGGGGGHHHHHH	3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
33333311111222222211111111133	2
HIIIIIJJJJKKKKKLMMMMMMMNOP	3

JBTNZTHHYWTATEZTMCPSKQLPRVWZAY	A
331111111113333333222222221	2
PPRRSSSTTTUUUVVWWWXXYYYYYZZ	3

3 3 3 3 3 3
V V V V W W W

A

ERY JERHPYRDYXGUDXBGVJJJJKGARLF	A
112222333333222111113332222223	3
AABBBCCCDDEEEEEFFFGGGHHIIIIJ	3

KFFOBIGDAZLCTLMWMOUYRHVCXJWUW	A
31111112222222211111113333331	3
JKKLLLLLMMMNNNOOPPPRRRRSSSTUU	3

LTMPVDNIOPNYAZYAZYZEXGPGWKOLID	A
11333333322211111111222222333	3
UVVVVWWWXXXXXYYYYYYZZZZAAABBC	3

CRGZDACTFMZVGXDDATFAZNIOGOKEYM	A
32222222211111111333333222222	3
CDDDEEEEEFFFGGGGGGGHHHHHHH	3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
22311111112222222222211111133	3
HIIIIIJJJJJKKKKKLMMMMMMMNOP	3

JBTNZTHHYWTATEZTMCP SKQLPRVWZAY	A
33333111111133333332222222111	3
PPRRSSSTTTUUUVVVVWWWXXYYYYYZ	3

A

SFEJOGDCINZQWZRABCDMJOBLL
 ERYJERHPYRDYXGUDXBGVJJJKGARLF A
 1112222333332222113333322222 5
 AABBBCCCDDEEEEEEFFFGGGHHIIIIJ 3

KFFOBIGDAZLCTLMWMOUYRHV CXJ VWUW A
 22333311111122222222111111333 5
 JKLLLLLMMMNNNOOPPPRRRRSSSTUU 3

LTMPVDNIOPNYAZYAZYZEXGPGWKOLID A
 333311111133333222221111122222 5
 UVVVVWWXXXXYYYYZZZZAAABBBCC 3

CRGZDACTFMZVGXDDATFAZNI OGOKEYM A
 222223222222221113333322222223 5
 CDDDEEEEEEFFFFFGGGGGGGHHHHHHH 3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP A
 333331111111222222221111113333 5
 HIIIIIIJJJJKKKKKLMMMMMMNNOP 3

VBDTFWP

JBTNZTHHYWTATEZTMCP SKQLPRVWZAY A
 3333333222223333333322222221 5
 PPPRRSSSTTUUVVVVWWWWWXXYYYYZZ 3

A

UDWOKXSXWUZEOLTKRJMGMVSVWDEWT
 ERYJERHPYRDYXGUDXBGVJJOJKGARLF A
 11112223333222221111133333322 4
 AABBBCCCODEEEEEFFFFFGGGHHIIIIJ 3

KFFOBIGDAZLCTLMWMOUYRHV CXJ VWUW A
 2223333331111122222222221111113 4
 JKLLLLLLMMMNNNOOPPPRRRRSSSTUU 3

62

V B D C F W P
 L TMPVDNIOPNYAZYAZY ZEXGPGWKOLID A
 3333333331111111332222222111112 4
 UVVVVVWWWXXXXYYYYYYZZZZZAAABBC 3

35

CRGZDACTFMZVGXDDATFAZNI OGOKEYM A
 222233333222211111113333322311 4
 CDDDEEEEEEEEEFFFFFGGGGGGGHHHHHH 3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP A
 111111222222222111113333333331 4
 HIIIIIIJJJJJKKKKKLMMMMMMMMNOP 3

JBTNZTHHYWTATEZTM CPSKQLPRVWZAY A
 111111133333333322222222211111 4
 PPPRRSSSTTTUUUVVVVVWWWXXYYYYYZ 3

A

ERY JERHPYRDYXGUDXBGVJJJJKGARLF	A
1111122232111111111113333322222	6
AABBBCCCDDEEEEEEFFF FGGGHHIIIIJ	3

KFFOBIGDAZLCTLMWMOUYRHV CXJ VWUW	A
23333331111222222222221111133	6
JKKLLLLLMMMNNNNOOPPPRRRRSSSTUU	3

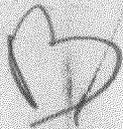
LTMPVDNIOPNYAZYAZY ZEXGPGWKOLID	A
3333311111133333321111122222222	6
UVVVVWWWXXXXXXYYYYYYZZZZZAAABBC	3

CRGZDACTFMZVGXDDATFAZNI OGOKEYM	A
33333322111111333333222223331	6
CDDDDDEEEEEEFFFFF FGGGGGGHHHHHHH	3

HDKBTXJFWBZFSPEHXMHFAPJEBEKKEP	A
111122222221111111111333333333	6
HIIIIIJJJJJKKKKKLMMMMMMMMMNNOP	3

JBTNZTHHYWTATEZTMCPSKQLPRVWZAY	A
111111111133333333222222111111	6
PPRRSSSTTTUUUVVWWWXXYYYYYZZ	3

35-34
 3 4 5
 34



11

¹G ²A ³I ⁴K ⁵H ⁶R ⁷J ⁸C ⁹K ¹⁰L ¹¹A ¹²W ¹³U ¹⁴J ¹⁵T ¹⁶Z ¹⁷F ¹⁸Y ¹⁹T ²⁰I ²¹A ²²Y ²³W ²⁴C ²⁵A ²⁶M ²⁷C ²⁸W ²⁹R ³⁰K B
 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 2 2 2 2 2 1 1 1 1 1 3 3 3 3 1
 A A B B C C D E E E E F F G H H H H I J J K K K K L M N N N 1

⁸F ⁹O ¹⁰B ¹¹I ¹²V ¹³X ¹⁴F ¹⁵K ¹⁶T ¹⁷D ¹⁸O ¹⁹R ²⁰G ²¹F ²²F ²³D ²⁴U ²⁵Z ²⁶O ²⁷V ²⁸X ²⁹U ³⁰Y ³¹X ³²G ³³A ³⁴G ³⁵J ³⁶K ³⁷C B
 3 2 2 2 2 2 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1
 N N O O O O P P P R R S T T U U U V V V V W W W W W X X X Y 1

¹J ²O ³X ⁴C ⁵H ⁶U ⁷I ⁸I ⁹P ¹⁰T ¹¹L ¹²T ¹³F ¹⁴H ¹⁵P ¹⁶F ¹⁷V ¹⁸S ¹⁹M ²⁰L ²¹X ²²S ²³R ²⁴D ²⁵T ²⁶Y ²⁷P ²⁸F ²⁹N ³⁰W B
 1 3 3 3 3 3 1 1 1 1 1 3 3 3 3 3 3 3 3 3 2 2 2 2 2 1 1 1 1 1 1
 Y Y Z Z Z Z A A A A B B B B B C C C C C C D D D D D 1

⁹G ¹⁰I ¹¹A ¹²W ¹³R ¹⁴X ¹⁵G ¹⁶Y ¹⁷L ¹⁸E ¹⁹H ²⁰Y ²¹I ²²G ²³P ²⁴O ²⁵L ²⁶H ²⁷H ²⁸X ²⁹G ³⁰S ³¹D ³²S ³³X ³⁴A ³⁵U ³⁶W ³⁷I B
 1 2 2 2 2 2 3 3 3 3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3 3 3 1
 D D E E E E E F F F F F G G G G H H H I I J J J J J K K 1

⁸Y ⁹K ¹⁰B ¹¹V ¹²K ¹³C ¹⁴X ¹⁵T ¹⁶U ¹⁷R ¹⁸E ¹⁹C ²⁰B ²¹G ²²A ²³A ²⁴E ²⁵I ²⁶X ²⁷L ²⁸C ²⁹F ³⁰I ³¹V ³²D ³³A ³⁴N ³⁵R ³⁶F ³⁷V B
 3 2 2 2 2 2 2 2 2 2 3 3 3 3 3 1 1 1 1 2 2 2 2 2 1 1 1 1 1
 K L L M M M N N N N O O O O P P P P R R R R R S S S S S 1

¹S ²K ³O ⁴E ⁵F ⁶B ⁷T ⁸G ⁹V ¹⁰L ¹¹X ¹²D ¹³E ¹⁴P ¹⁵J ¹⁶O ¹⁷K ¹⁸L ¹⁹S ²⁰K ²¹M ²²D ²³V ²⁴O ²⁵I ²⁶D ²⁷P ²⁸R ²⁹K ³⁰J B
 1 3 3 3 3 3 1 1 1 1 1 1 1 1 1 3 3 3 3 2 2 2 2 2 1 1 1 1 1
 T T T T U U U V V V V V W W W X X X Y Y Y Y Z Z Z Z 1

11

B

13

GAIKHRJCKLAWUJTZFYTIAYWCAMCWRK	B
112222333333222111113332222223	3
AABBCCDEEEEFFFGHHHHIJJKKKKLMNN	1

FOBIVXFKTDORGFDDUZOVXUYXGAGJKC	B
311111122222222211111113333331	3
NN0000PPPRRSTTUUVVVVWWWWWXXY	1

JOXCHUIIPTLTFHPFVSM LXSRDTYPFNW	B
113333333222111111112222222333	3
YYZZZZAA AABBBBBBBCC CCCCDDDDDD	1

GIAWWRXGYLEHYIGPOLHHXGSDSXAUI	B
322222222211111111333333222222	3
DDEEEEFF FFFF FGGGGHHHIIJJJJJJKK	1

YKBVKCXTURECBGAAEIXLCFIVDANRFV	B
22311111112222222222222211111133	3
KL LMMNNNN0000PPPPRRRRRSSSSS	1

SKOEFBTGVLXDEPJOKLSKMDVOIDPRKJ	B
333331111111333333322222222111	3
TTTTUUUVVVVVVWWWX XXYY YYZZZZ	1

13

B

14

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	8
1 1 1 1 2 2 2 3 3 3 3 2 2 2 2 2 1 1 1 1 1 3 3 3 3 3 3 2 2	4
A A B B C C D E E E E F F G H H H H I J K K K K L M N N N	1

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	8
2 2 2 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 1 3	4
N N O O O O P P P P R R S T T U U U V V V V W W W W W X X X Y	1

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	8
3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 3 3 2 2 2 2 2 2 1 1 1 1 1 2	4
Y Y Z Z Z Z A A A A B B B B B C C C C C C D D D D D D	1

G I A W R X G Y L E H Y I G P O L H H X G S D S X A U W I	8
2 2 2 2 3 3 3 3 3 2 2 2 2 1 1 1 1 1 1 1 3 3 3 3 3 2 2 3 1 1	4
D D E E E E E F F F F F F G G G G H H H I I J J J J J K K	1

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	8
1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3 3 3 3 3 3 3 1	4
K L L L M M M N N N N O O O O P P P P P R R R R R R S S S S S	1

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	8
1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 1 1 1 1 1	4
T T T T U U U V V V V V V W W W X X X Y Y Y Y Z Z Z Z Z	1

B

15

GAIKHRJCKLAWUJTZFYTIAYWCAMCWRK	B
111222233333322221133333322222	5
AABBCCDEEEFFFGHHHHIJJKKKKLNNN	1

FOBIVXFKTDORGFFDUZOVXUYXGAGJKC	B
223333111111122222222111111333	5
NN0000PPPRRSTTUUVVVVWWWWWXXY	1

JOXCHUIIPTLTFHPFVSM LXSRDTYPFNW	B
3333111111133333222221111122222	5
YYZZZZAA AABBBBCC CCCCDDDDDD	1

GIAWWRXGYLEHYIGPOLHHXGSDSXAUWI	B
22222322222221113333322222223	5
DDEEEEFF FFFF FGGGHHHIIJJJJJKK	1

YKBVKCXTURECBGAAEIXLCFIVDANRFV	B
33333111111122222222111111333	5
KL LLMNNNN0000PPPPRRRRRSSSS	1

SKOEFBTGVLXDEPJOKLSKMDVOIDPRKJ	B
33333333222223333333322222221	5
TTTTUUUVVVVVVWWWWWXXXYZZZZ	1

15

B

16

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 1 2 2 2 3 2 1 1 1 1 1 1 1 1 1 1 3 3 3 3 2 2 2 2	6
A A B B C C D E E E E F F G H H H H I J J K K K K L M N N N	1

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 3 3 3 3 3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3	6
N N O O O O P P P R R S T T U U U V V V V W W W W X X X Y	1

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 3 1 1 1 1 1 1 3 3 3 3 3 2 1 1 1 1 1 2 2 2 2 2 2	6
Y Y Z Z Z Z A A A A B B B B B B C C C C C C D D D D D D	1

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
3 3 3 3 3 3 2 2 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2 3 3 3 1	6
D D E E E E E F F F F F F G G G G H H H I I J J J J J K K	1

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3	6
K L L L M M M N N N N O O O O P P P P P R R R R R R S S S S S	1

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 2 2 2 2 2 2 1 1 1 1 1 1	6
T T T T U U U V V V V V V W W W X X X Y Y Y Y Y Z Z Z Z Z	1

B

21

GAIKHRJCKLAWUJTZFYTIAYWCAMCWRK	B
111222222223333322222111113333	1
AAABCCCDDEEEFFFGHHIIJJJKKLLMM	2

FOBIVXFKTDORGFDDU'ZOVXUYXGAGJKC	B
322222333331111122222111111111	1
MNNN000PPPRRRSSSTTUUVVWWXXXY	2

JOXCHUIIPTLTFHPFVSM LXSRDTYPFNW	B
1333331111113333333333222221111	1
YYYZZZZZZZZZZAAAAAABBCCCCDDDD	2

GIAWWRXGYLEHYIGPOLHHXGSDSXAUI	B
122222333332222222222111113333	1
DEEEEFEEEEFFGGGGHHHHIIJJKKKKKKL	2

YKBVKCXTURECBGAAEIXLCFIVDANRFV	B
322222222223333311111222221111	1
LLMNNN0000PPPPPPPRRRSSSTTTTTT	2

SKOEFBTG VLXDEP JOKLSKMDVOIDPRKJ	B
133333111111111111133333222221111	1
UUUUUUUVVVVVVWWWWWWWWWXXXXXXYYZZZ	2

21

B

22

GAIKHRJCKLAWUJTZFYTIAYWCAMCWRK	B
111122222233332222111111333333	2
AAABCCCDDEEEFFFGHHIIJJJKKLLMM	2

FOBIVXFKTDORGF F DUZOVXUYXGAGJKC	B
222233331112222221113333331111	2
MNNNOOOPPPRRRSSSTTUUVVWVWXXXYY	2

JOXCHUIIPTLTFHPFVSMLXSRDTYPFNW	B
3333333222221111111122222233	2
YYYZZZZZZZZZAAAAAABBCCCCCDDDD	2

GIAWRXGYLEHYIGPOLHHXGSDSXAUI	B
3333321111111333332222223333	2
DEEEEF F FGGGGHHHHIIJJKKKKKKL	2

YKBVKCXTURECBGAAEIXLCFIVDANRFV	B
3333331111122222211111111133	2
LLMMNNNOOOPPPPPPPRRSSSTTTT	2

SKOEFBTGVLXDEPJOKLSKMDVOTDPRKJ	B
33111111111133333333322222221	2
UUUUUUVVVVVWWWWWWWXXXXXXYYZZZ	2

22

B

23

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 2 2 2 2 3 3 3 3 3 2 2 2 1 1 1 1 1 3 3 3 2 2 2 2 2 2 3	3
A A A B C C C D D E E E F F F G H I I I J J J J K K L L M M	2

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
3 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 3 3 3 3 3 1	3
M N N N O O O P P P R R R S S S T T U U U V V W W X X X Y Y	2

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
1 1 3 3 3 3 3 3 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3	3
Y Y Y Z Z Z Z Z Z Z Z Z A A A A A A A B B C C C C C D D D D	2

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
3 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2 2	3
D E E E E E F F F F F G G G G H H H H I I J J K K K K K K L	2

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
2 2 3 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3	3
L L L M N N N O O O O P P P P P P R R R S S S T T T T T T	2

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
3 3 3 3 3 1 1 1 1 1 1 1 3 3 3 3 3 3 2 2 2 2 2 2 2 2 1 1 1	3
U U U U U V V V V V W W W W W W W X X X X X Y Y Y Z Z Z	2

23

B

24

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 1 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 3 3 3 3 3 2 2	4
A A A B C C C D D E E E F F F G H I I I J J J J K K L L M M	2

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 2 2 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 3	4
M N N N O O O P P P R R R S S S T T U U U V V W W X X X Y Y	2

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 3 3 2 2 2 2 2 1 1 1 1 1 2	4
Y Y Y Z Z Z Z Z Z Z Z Z A A A A A A A B B C C C C D D D D	2

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
2 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 1 1 3 3 3 3 2 2 3 1 1	4
D E E E E E F F F F F G G G G H H H H I I J J K K K K K K L	2

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 3 3 3 3 3 3 3 3 1	4
L L L M M N N N O O O O P P P P P P P R R R S S S T T T T T T	2

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
1 1 1 1 1 1 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 1 1	4
U U U U U U V V V V V W W W W W W W X X X X X Y Y Y Z Z Z	2

24

B

25

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 2 2 2 2 3 3 3 3 3 2 2 2 2 1 1 3 3 3 3 3 2 2 2 2	5
A A A B C C C D D E E E F F F G H I I I J J J J K K L L M M	2

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 2 3 3 3 3 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3 3	5
M N N N O O O P P P R R R R S S S T T U U U V V W W X X X Y Y	2

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 1 1 1 1 1 1 3 3 3 3 2 2 2 2 2 1 1 1 1 1 2 2 2 2	5
Y Y Y Z Z Z Z Z Z Z Z Z A A A A A A A B B C C C C C D D D D	2

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
2 2 2 2 2 3 2 2 2 2 2 2 2 1 1 1 3 3 3 3 2 2 2 2 2 2 2 3	5
D E E E E E F F F F F F G G G G H H H H I I J J K K K K K K L	2

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
3 3 3 3 3 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3 3	5
L L L M M N N N O O O O P P P P P P R R R S S S T T T T T	2

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
3 3 3 3 3 3 3 2 2 2 2 2 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 1	5
U U U U U U V V V V V W W W W W W W X X X X X Y Y Y Z Z Z	2

25

B

26

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	8
1 1 1 1 1 2 2 2 3 2 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2	6
A A A B C C C D D E E E F F F G H I I I J J J J K K L L M M	2

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	8
2 3 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3	6
M N N N O O O P P P R R R S S S T T U U U V V W W X X X Y Y	2

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	8
3 3 3 3 3 1 1 1 1 1 1 3 3 3 3 3 2 1 1 1 1 1 2 2 2 2 2 2 2	6
Y Y Y Z Z Z Z Z Z Z Z Z A A A A A A A B B C C C C C D D D D	2

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	8
3 3 3 3 3 3 2 2 1 1 1 1 1 1 3 3 3 3 3 3 2 2 2 2 2 3 3 3 1	6
D E E E E E F F F F F G G G G H H H H I I J J K K K K K K L	2

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	8
1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3	6
L L L M M N N N O O O O P P P P P P P R R R S S S T T T T T	2

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	8
1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 2 2 2 2 2 2 1 1 1 1 1 1	6
U U U U U U V V V V V W W W W W W W W X X X X X Y Y Y Z Z Z	2

76

B

31

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 2 2 2 2 2 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 3 3 3 3	1
A A B B B C C C D D E E E E E F F F F G G G G H H I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
3 2 2 2 2 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 1	1
J K K L L L L M M M N N N N O O P P P R R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
1 3 3 3 3 1 1 1 1 1 3 3 3 3 3 3 3 3 2 2 2 2 2 1 1 1 1	1
U V V V V W W W X X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
1 2 2 2 2 3 3 3 3 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3 3 3	1
C D D D D E E E E E F F F F F F G G G G G G H H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
3 2 2 2 2 2 2 2 2 2 3 3 3 3 3 1 1 1 1 2 2 2 2 2 1 1 1 1	1
H I I I I I I J J J J K K K K K L M M M M M M M N N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
1 3 3 3 3 1 1 1 1 1 1 1 1 1 1 3 3 3 3 2 2 2 2 2 1 1 1 1	1
P P P R R S S S T T T U U U V V V W W W W X X Y Y Y Y Z Z	3

B

32

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 1 2 2 2 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 1 3 3 3 3 3 3	2
A A B B B C C C D D E E E E E F F F F G G G H H I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 2 2 2 3 3 3 3 1 1 1 2 2 2 2 2 2 1 1 1 3 3 3 3 3 3 1 1 1 1	2
J K K L L L L L M M M N N N N O O P P P R R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 3 3 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 3 3	2
U V V V V W W W X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
3 3 3 3 2 1 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2 2 2 3 3 3 3	2
C D D D D E E E E E F F F F F F G G G G G G H H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
3 3 3 3 3 3 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 3 3	2
H I I I I I I J J J J K K K K K L M M M M M M M M N N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
3 3 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 1	2
P P P R R S S S T T T U U U V V V W W W W X X Y Y Y Y Y Z Z	3



G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 2 2 2 2 3 3 3 3 3 2 2 2 1 1 1 1 1 3 3 3 2 2 2 2 2 3	3
A A B B B C C C D D E E E E E F F F F G G G G H H I I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
3 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 3 3 3 3 3 3 1	3
J K K L L L L L M M M N N N N O O P P P R R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
1 1 3 3 3 3 3 3 3 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3	3
U V V V V W W W X X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
3 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 3 3 3 3 3 3 2 2 2 2 2 2	3
C D D D D E E E E E E F F F F F F G G G G G G H H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
2 2 3 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3	3
H I I I I I I J J J J K K K K K L M M M M M M M M N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
3 3 3 3 3 1 1 1 1 1 1 1 3 3 3 3 3 3 3 2 2 2 2 2 2 2 1 1 1	3
P P P R R S S S T T T U U U V V V W W W X X Y Y Y Y Z Z	3

B

34

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 1 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 3 3 3 3 3 2 2	4
A A B B B C C C D D E E E E E F F F F G G G H H I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 2 2 3 3 3 3 3 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 3	4
J K K L L L L M M M N N N N O O P P P R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 3 3 2 2 2 2 2 1 1 1 1 1 2	4
U V V V V W W W X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
2 2 2 2 3 3 3 3 2 2 2 2 1 1 1 1 1 1 1 3 3 3 3 2 2 3 1 1	4
C D D D E E E E E F F F F F F G G G G G H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 3 3 3 3 3 3 3 3 1	4
H I I I I I I J J J J K K K K K L M M M M M M M N N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 1 1 1 1 1	4
P P P R R S S S T T T U U U V V V W W W W X X Y Y Y Y Z Z	3

B

35

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 2 2 2 2 3 3 3 3 3 2 2 2 2 1 1 3 3 3 3 3 2 2 2 2 2	5
A A B B B C C C D D E E E E E F F F F G G G H H I I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 2 3 3 3 3 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3 3	5
J K K L L L L L M M M N N N N O O P P P R R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2	5
U V V V V W W W X X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
2 2 2 2 3 2 2 2 2 2 2 2 1 1 1 3 3 3 3 3 2 2 2 2 2 2 2 3	5
C D D D D E E E E E E F F F F F F F G G G G G G H H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
3 3 3 3 3 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 3 3 3	5
H I I I I I I J J J J J K K K K K L M M M M M M M M N N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
3 3 3 3 3 3 3 2 2 2 2 2 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 1	5
P P P R R S S S T T T U U U V V V W W W W X X Y Y Y Y Y Z Z	3

35

B

36

G A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K	B
1 1 1 1 2 2 2 3 2 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 2 2 2 2	6
A A B B B C C C D D E E E E E F F F F G G G H H I I I I J	3

F O B I V X F K T D O R G F F D U Z O V X U Y X G A G J K C	B
2 3 3 3 3 3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 3	6
J K K L L L L M M M N N N N O O P P P R R R R R S S S T U U	3

J O X C H U I I P T L T F H P F V S M L X S R D T Y P F N W	B
3 3 3 3 3 1 1 1 1 1 1 3 3 3 3 3 2 1 1 1 1 1 2 2 2 2 2 2	6
U V V V V W W W X X X X Y Y Y Y Y Z Z Z Z A A A B B C C	3

G I A W W R X G Y L E H Y I G P O L H H X G S D S X A U W I	B
3 3 3 3 3 3 2 2 1 1 1 1 1 1 3 3 3 3 3 2 2 2 2 2 3 3 3 1	6
C D D D D E E E E E E F F F F F F G G G G G G H H H H H H H	3

Y K B V K C X T U R E C B G A A E I X L C F I V D A N R F V	B
1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3	6
H I I I I I I J J J J K K K K K L M M M M M M M N N O P	3

S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J	B
1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 2 2 2 2 2 2 1 1 1 1 1 1	6
P P P R R S S S T T T U U U V V V W W W X X Y Y Y Y Y Z Z	3

36



TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111222222223333322222111113333	1
AABBCCDEEEFFGHHHHIJJKKKKLMNN	1

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
322222333331111122222111111111	1
NN0000PPRRSTTUUVVVVWWWXXXY	1

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG	C
133333111113333333333222221111	1
YYZZZZAAABBBBCCDDDDDD	1

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
122222333332222222222111113333	1
DDEEEEFFFFFFFFGGGGHHHIIJJJJJKK	1

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
322222222223333311111222221111	1
KLLMMMNNNN0000PPPPRRRRRSSSS	1

ALTAZSZXBHYBAZWGMJOSXWPOYBWBGG	C
1333331111111111133333222221111	1
TTTTUUUVVVVVVWWWXXXYZZZZ	1

TRFLKBNEYLYDZKLSBYHGINATWIRPRA C
 111122222233332222111111333333 2
 AABBCCEEEFFFGHHHIJJKKKKLMNN 1

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN C
 222233331112222221113333331111 2
 NN0000PPPRRSTTUUVVVVWWWWWXXXY 1

SMUTNGYOLHLYXTWHZNINPKYNHZUPXG C
 3333332222211111111122222233 2
 YYZZZZAA AABBBBBBCCCCCDDDDDD 1

PVULDEDAONYAGNBCKMCJIMGYDJEBGR C
 3333221111111333332222223333 2
 DDEEEEFF FFFFGGGGHHIJJJJJJJKK 1

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM C
 33333311111222222211111111133 2
 KLLMMNNNN0000PPPPRRRRRSSSS 1

ALTAZSZXBHYBAZWGMJOSXWPOYBWOBG C
 33111111111333333333222222221 2
 TTTTUUVVVVVVWWWWWXXXYZZZZ 1

C

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
11222233333322211111333222223	3
AABBCCDEEEFFFGHHHHIJKKKKLMNN	1

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
31111112222222211111113333331	3
NN0000PPPRRSTTUUVVVVWWWWWXXXY	1

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
11333333222111111112222222333	3
YYZZZZAA AABBBBBBCCCCCDDDDDD	1

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
3222222221111111133333222222	3
DDEEEEFFFFFGGGGHHHHIIJJJJJJKK	1

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
22311111112222222222211111133	3
KLLMMNNNNNO0000PPPPRRRRRRSSSS	1

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
33333111111133333322222222111	3
TTTTUUUVVVVVVWWWWWXXXYZZZZZ	1

C

14

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111122233332222211111133333322	4
AABBCCDEEEFFFGHHHHIJJKKKKLMMNN	1

FVMVMHXZWKBZECF0BZBYUNSGKSWLEN	C
2223333331111122222222221111113	4
NN0000PPPRRSTTUUVVVVWWWWWXXXY	1

SMUTNGYOLHLYXTWHZNPKNHZUPXG	C
3333333331111111332222221111112	4
YYZZZZAAABBBBCCDDDDDD	1

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
222233333222211111113333322311	4
ODEEEEEFFFFFGGGGHHHIIJJJJJKK	1

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
11111112222222211111333333331	4
KLLMMNNNN0000PPPPRRRRSSSS	1

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
11111113333333332222222211111	4
TTTTUUUVVVVVVWWWWWXXXYZZZZ	1

TRFLKBNEYLYDZKLSBYHGINATWIRPRA C
 111222233333322221133333322222 5
 AABBCDEEEFFFGHHHIJJKKKKLMNNN 1

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN C
 223333111111122222222111111333 5
 NN0000PPPPRRSTTUUVVVVWWWWWXXXY 1

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG C
 333311111133333222221111122222 5
 YYZZZZAA AABBBBBBBBC C C C C C D D D D D 1

PVULDEDA ONYAGNBCKMCJIMGYDJEBGR C
 222223222222221113333322222223 5
 DDEEEEFF F F F F F G G G G H H H I I J J J J J K K 1

HLOTMLTYDEJJPVBTGUTEUWWNCINLVM C
 333331111111122222222111111333 5
 KLLMMNNNNNO0000PPPPPPRRRRRRSSSS 1

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG C
 3333333222223333333322222221 5
 TTTTUUVVVVVVWWXXXYZZZZ 1

TRF LKBNEYLYDZKLSBYHGINATWIRPRA C
 111112223211111111113333322222 6
 A ABBCCDEEEFFFGHHHHIJJKKKKLMMNN 1

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN C
 233333311111222222222221111133 6
 NN0000PPRRSTTUUVVVVWWWWWXXXY 1

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG C
 333331111113333332111112222222 6
 YYZZZZAA AABBBBBBCCCCCDDDDDD 1

PVULDEDAONYAGNBCKMCJIMGYDJEBGR C
 33333322111111333333222223331 6
 DDEEEEFFFFFFFFGGGGHHHIIJJJJJJKK 1

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM C
 11112222222111111111133333333 6
 KLLMMNNNNNO0000PPPPRRRRRSSSS8 1

ALTAZSZXBHYBAZWMJOSXWPOYBWQBG C
 111111111133333333222222111111 6
 TTTTUUVVVVVVWWWWWXXXYZZZZZ 1

21

C

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
11122222222333332222111113333	1
AAABCCDDEEFFFGHHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
32222233331111122222111111111	1
MNNNOOOPP PRRRSSSTTUUVVWXXXY	2

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
13333311111333333333222221111	1
YYYZZZZZZZZZAAAAAABBCCCCDDDD	2

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
12222233332222222222111113333	1
DEEEEF FFFFGGGGHHHHIIJJKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
322222222223333311111222221111	1
LLLMMNNNOOOPP PRRRSSSTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
13333311111111113333222221111	1
UUUUUVVVVVWWWWWWWXXXXYYZZZ	2

122

C

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111122222233332222111111333333	2
AAABCCCDDEEEFFFGHHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
222233331112222221113333331111	2
MNNN000PPPRRRSSSTTUUVVWXXXY	2

SMUTNGYOLHLYXTWHZNINPKYNHZUPXG	C
3333332222221111111122222233	2
YYYZZZZZZZZZAAAAAABBCCCCDDDD	2

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
33333211111113333322222223333	2
DEEEEEEFFFGGGGHHHHIIJJKKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
333333111111222222211111111133	2
LLMMNNN0000PPPPPPRRSSSTTTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
3311111111133333333322222221	2
UUUUUUUVVVVVWWWWWWXXXXXYZZZ	2

C

23

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
112222333333222111113332222223	3
AAABCCCDDEEEFFFGHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
31111112222222211111113333331	3
MNNN000PPPRRRSSSTTUUVVWVWXXXY	2

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
11333333222111111112222222333	3
YYYZZZZZZZZZAAAAAABBCCCCDDDD	2

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
3222222221111111133333222222	3
DEEEEFEEEEFGGGHHHHIIJJKKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
22311111112222222222211111133	3
LLMMNNN0000PPPPPPRRSSSTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
33333111111133333322222222111	3
UUUUUVVVVVWWWWWWWXXXXYZZZ	2

C

24

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111122233332222211111133333322	4
AAABCCCDDEEEFFFGHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
222333333111112222222221111113	4
MNNN000PPPRRRSSSTTUUVVWVWXXXYY	2

SMUTNGYOLHLYXTWHZNINPKYNHZUPXG	C
3333333331111111133222222111112	4
YYYZZZZZZZZZZAAAAAABBCCCCDDDD	2

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
222233333222211111113333322311	4
DEEEEEFFFFFGGGGHHHHIIJJKKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
111111122222222111113333333331	4
LLMMNNN0000PPPPPPRRSSSTTTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
11111113333333332222222211111	4
UUUUUVVVVVVWWWWWWWXXXXXYZZZ	2

C

25

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
1112222333332222113333322222	5
AAABCCDDEEEFFFGHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
22333311111122222222111111333	5
MNNN000PPRRRSSSTTUUVVWXXXY	2

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG	C
333311111133333222221111122222	5
YYYZZZZZZZZZAAAAAABBBCCCCDDDD	2

PVULDEDAONYAGNBCKMCIJMGYDJEBGR	C
222223222222221113333222222223	5
DEEEEFFFFFGGGGHHHHIIJJKKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
33333111111122222222111111333	5
LLLMMNNN0000PPPPPPRRSSSTTTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
3333333222223333333322222221	5
UUUUUVVVVVWWWWWXXXXXYZZZ	2

Q

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111112223211111111113333322222	6
AAABCCDDEEEFFFGHHIIJJJKKLLMM	2

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
233333311111222222222221111133	6
MNNN000PPPRRRSSSTTUUVVWVWXXXY	2

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG	C
3333311111133333321111122222222	6
YYYZZZZZZZZZZAAAAAABBCCCCDDDD	2

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
33333322111111333333222223331	6
DEEEEEFFFFFGGGGHHHHIIJJKKKKKKKL	2

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
111122222222111111111133333333	6
LLLMMNNN0000PPPPPPPRRRSSSTTTTTT	2

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
111111111133333333222222111111	6
UUUUUUUVVVVVVWWWWWWWWWXXXXXYZZZ	2

C

9)

TRFLKBN EYLYDZKLSBYHGINATWIRPRA	C
1112222222333332222111113333	1
AABBBCCCDDEEEEEEFFFGGGHHIIIIJ	3

FVMVMHXZWK BZECF OBZBYUNSGKSWLEN	C
32222333331111122222111111111	1
JKKLLLLLMMMNNN OOPPPRRRRSSSTUU	3

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
133333111113333333332222211111	1
UVVVVWWWXXXXXYYYYYYZZZZAAABBC	3

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
1222233333222222222111113333	1
CDDDEEEEEEFFFFFFFGGGGGHHHHHH	3

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
3222222222333331111222221111	1
HIIIIIJJJJJKKKKKLMMMMMMMMNOP	3

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
13333311111111133333222221111	1
PPRRSSSTTTUUUVVVWWWXXYYYYYZZ	3

C

32

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111122222233332222111111333333	2
AABBBCCCDDEEEEEFFFFGGGHHIIIIJ	3

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
222233331112222221113333331111	2
JKKLLLLLMMMNNNOOPPPRRRRRSSSTUU	3

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG	C
3333332222211111111122222233	2
UVVVVWWWXXXXXYYYYYYZZZZAAABBCC	3

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
33332111111133332222223333	2
CDDDEEEEEFFFFFGGGGGGGHHHHHHH	3

HLOTMLTYDEJJJPVBTUTEUWWNCINLVM	C
3333311111122222211111111133	2
HHHHHHIJJJJKKKKKLMMMMMMNNOP	3

ALTAZSZXBHYBAZWGMJOSXWPOYBWBQBG	C
3311111111133333333322222221	2
PPRRRSSSTTTUUUVVVVWWWXXYYYYYZZ	3

33

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
1122223333322211111333222223	3
AABBBCCCDDEEEEEFFFFGGGHHIIIIJ	3

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
31111112222222211111113333331	3
JKKLLLLLMMMNNNOOPPPRRRRSSSTUU	3

SMUTNGYOLHLYXTWHZNIINPKYNHZUPXG	C
1133333322211111112222222333	3
UVVVVWWWXXXXXYYYYYZZZZAAABBC	3

PVULDEDAONYAGNBCKMCJIMGYDJEGBR	C
322222222111111113333322222	3
CDDDDDEEEEEFFFFFGGGGGGHHHHHHH	3

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
223111111222222222221111133	3
HIIIIIJJJJKKKKKLMMMMMMMMNOP	3

ALTAZSZXBHYBAZWGMJOSXWPOYBWBGB	C
33333111111333333222222111	3
PPRRRSSSTTTUUUVVVWWWXXYYYYYZ	3

C

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111222233333322221133333322222	5
AABBBCCCDDEEEEEFFFGGGHHIIIIJ	3

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
223333111111122222222111111333	5
JKKLLLLLMMMNNNNOOPPPRRRRRSSSTUU	3

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
333311111133333222221111122222	5
UVVVVWWWXXXXXYYYYYZZZZAAABBC	3

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
22222322222221113333322222223	5
CDDDDDEEEEEFFFFFGGGGGGGHHHHHHH	3

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
333331111111122222222111111333	5
HIIIIIJJJJKKKKKLLMMMMMMMMNOP	3

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
33333333222223333333322222221	5
PPRRRSSSTTTUUUVVVVWWWXXYYYYYZ	3

36

TRFLKBNEYLYDZKLSBYHGINATWIRPRA	C
111112223211111111113333322222	6
AABBBCCCDDEEEEEFFFGGGHHIIIIJ	3

FVMVMHXZWKBZECFOBZBYUNSGKSWLEN	C
233333311111222222222221111133	6
JKKLLLLLMMMNNNOOPPPRRRRSSSTUU	3

SMUTNGYOLHLYXTWHZNI NPKYNHZUPXG	C
333331111113333332111112222222	6
UVVVVWWWXXXXXXYYYYYYZZZZAAABBC	3

PVULDEDAONYAGNBCKMCJIMGYDJEBGR	C
33333322111111333333222223331	6
CDDDEEEEEFFFGGGGGGGHHHHHHH	3

HLOTMLTYDEJJPVBTCUTEUWWNCINLVM	C
1111222222211111111133333333	6
HIIIIIJJJJJKKKKKLMMMMMMMMNOP	3

ALTAZSZXBHYBAZWGMJOSXWPOYBWQBG	C
111111111133333333222222111111	6
PPRRRSSSTTTUUUVVVVWWWXXYYYYYZ	3

Block type No 1
Block " No 2

Stepping Wheel No 2

Z P B D O I T D W L K U F Z H F C R J K P P K P J P S W O J P G G C Z K L U E T K P V I N
O G T C I V Y R C N V A H G S N A D P I D D K D G K L T L H V C C Y P U Y H R X R D G E V
V H U G N T Y B A S I T C I P M V T W I B B F B O D H L V Z I M M U Z P V N S P K Y S B U

Z E A V I E I M C E M S P P K B F G M D V Z W X M Z H L E B L E B E V G D X D C S Z M S P
F P C B K F V H V N M A O M G V J U L S D A W R L A M K D T K D T D G Y D F D N S O J D I
P E J L Y F W F P O M B T R J T L S Y U T B I M Y B P C I U C I U I Y W S K S I P G I L X

U L E J K B R A X Y G G V L F L W U N U I C V I P I J C N U N B G N D W L G D Z B P R L A
Y N O I V Y T C B A V O I C N K X L U H K G P B K B G Y E E W Y I I E E I C L P T A W J C
S S X L I N X N A L D O Z R M W B K J P R X Y K D K O A Z Y A C X X H P H M F Z B W A Z X

O M X O I Z Y B U G M Y Y M H A P G S M G I I F J P P K X S K O C A V A _ H W J X K N F H
D Z G D S E Y K L J S U U S M J U P M L P V V B D N I K R W K B V H G X _ I C Z L G E N M
O E B O D O W S Z D M G G M L X G I V A I W W N H Z W M D J M T P C Z Y _ A R U P J X G P

REF ID: A4127215

*Stephane
Wood 2*

0	ERYU	1	RE	2	HR	3	HP	4	RY	5	RD	6	YX	7	GU	8	UD	9	XB	10	GV	11	JJ	12	JO	13	JK	14	GA	15	RL	16	FK	17	EF	18	OB	19	IG	20	DA	21	ZL	22	OT	23	LM																																																											
1	ZPBD	2	DO	3	IT	4	DW	5	LK	6	UF	7	ZH	8	FC	9	RJK	10	PKP	11	JJP	12	SW	13	OP	14	GG	15	GC	16	ZKL	17	UJ	18	ET	19	KPV	20	IN																																																																			
2	OGTC	3	IV	4	YR	5	CN	6	VV	7	AH	8	GS	9	NAD	10	PI	11	DD	12	KD	13	GK	14	LT	15	LHV	16	CC	17	YF	18	UT	19	HR	20	KR	21	DD	22	GE	23	EV																																																															
3	VH	4	U	5	G	6	N	7	T	8	Y	9	B	10	A	11	S	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

3 green
4 purple

Z P B D O I T D W L K U F Z H F O R J K P P K P J P S W O J P G G C Z K L U E T K P V I N
O G T C I V Y R C N V A H G S N A D P I D D K D G K L T L H V C O Y P U Y H R X R D G E V
V H U G N T Y B A S I T C I P M V T W I B B E B O D H L V Z I M M U Z P V N S P K Y S B U

Z E A V I E I M C E M S P P K B F G N D V Z W X M Z H L E B L E B E V G D X D C S Z M S P
F P C B K F V H V N M A O M G V J U L S D A W R L A M K D T K D T D G Y D F D N S O J D I
P E J L Y F W F P O M B T R J T L S Y U T B I M Y B P C I U C I U I Y W S K S I P G I L X

U L E J K B R A X Y G G V L F L W U N U I C V I P I J C N U N B G N D W L G D Z B P R L A
Y N O I V Y T G B A V O I C N K X L U H K G P B K B G Y E E W Y I I E E I O L F T A W J C
S S X L I N X N A L D O Z R M W B K J P R X Y K D K O A Z Y A C X X H P H M F Z B W A Z X

O M X O I Z Y B U G M Y Y M H A P G S M G I I F J P P K X S K O C A V A _ H W J X K N F H
D Z G D S E Y K L J S U U S M J U P M L P V V B D N I K R W K B V H G X _ I C Z L G E N M
O E B O D O W S Z D M G G M L X G I V A I W W N H Z W M D J M T P C Z Y _ A R U P J X G P

W. K. 2

6 (5)

ZPBD01TDW LKUFZHFORJKRPPKPPJPSW0JPGG0ZKLUETKPVIN
 OGT0IVYR0NV AHG0SNA0DP IDDKD0GKLLTLHV0C0YPUYHRRXR0G0EV
 VHU0NTYBASITCIPMVTWIBBFB0DHLVZIMMUZPVNSPKY0GBU

ZEAVIEI0M0E0M0SPPKBFGMDVZWXNZHLE0LE0BEVGD0XD00SZMSP
 FPC0BK0FVHV0NMA0M0GVJULSDA0WRLAMK0D0TKD0TD0GYD0F0N0S0J0D0I
 PEJLYTFWF0P0M0BTRJTL0SYUTBIMYBPOIU0IU1YWSK0SIPGILX

ULEJKBRAXXYGGVLLFWUNUIC0YIP1JONUN0B0GNDWLG0Z0BPRLLA
 YN0I0VYTCBAV0I0C0M0K0XLUHK0G0P0B0K0B0GYE0E0W0Y0I0E0I0C0L0P0T0AW0J0C
 S0X0L0I0N0X0N0A0L0D0O0Z0R0M0W0B0K0J0P0R0X0Y0K0D0K0A0Z0Y0A0C0X0X0H0P0M0F0Z0B0W0A0Z0X

OMX0I0Z0Y0B0U0G0M0Y0M0H0A0P0Q0S0M0G0I0IF0J0P0K0X0S0K0O0C0A0V0A0_H0W0J0X0K0N0F0M
 DZG0D0S0E0Y0K0L0J0S0U0S0M0J0U0P0M0L0P0V0B0D0N0I0K0R0W0K0B0V0H0G0X0_I0O0Z0L0G0E0N0M
 OEB0D0D0W0S0Z0D0M0G0M0L0X0G0I0V0A0I0W0M0H0Z0W0M0D0J0M0T0P0O0Z0Y0_A0R0U0P0J0X0G0P

NO. 1130 FROM PARIS AUGUST 9

É	Y	J	E	R	H	P	Y	R	D	Y	X	G	U	D	X	B	G	V	J	J	O	J	K	G	A	R	L	F	K	F	F	O	B	I	G	D	A	Z	L	C	T	L	M	
Z	P	T	D	V	I	T	X	W	F	K	U	E	Y	I	F	W	Z	G	O	O	G	J	V	J	U	B	N	Z	O	V	V	F	D	J	K	B	X	Y	O	O	N	J	R	
O	G	X	C	G	V	Y	F	C	P	V	A	X	O	L	P	H	F	G	O	F	F	P	R	Z	P	H	U	X	M	O	T	T	J	G	K	B	Y	S	Y	L	F	D	S	Z
V	H	E	G	Y	T	Y	K	A	J	I	T	G	X	B	Z	C	E	I	O	N	N	Y	F	J	W	P	Z	D	O	S	X	X	B	O	F	G	C	A	F	V	C	A	Y	F
W	M	O	U	Y	R	H	V	C	X	J	V	W	U	W	L	T	M	P	V	D	N	I	O	P	N	Y	A	Z	Y	A	Z	Y	Z	E	X	G	P	G	W	K	O	L	I	D
D	S	H	D	J	X	J	T	P	S	B	A	V	V	O	L	P	V	T	M	N	D	B	R	W	N	C	K	D	Y	I	D	Y	D	E	O	R	M	S	F	M	N	W	R	G
L	O	T	V	I	L	Z	Y	D	G	K	M	R	B	E	Z	N	K	X	H	F	X	A	W	C	H	U	V	R	Y	P	R	Y	R	Z	J	F	L	R	V	A	D	K	E	G
F	K	H	I	G	V	X	R	Y	A	S	V	U	L	E	U	Z	A	G	F	E	N	S	I	R	F	K	L	O	B	D	O	B	O	R	Z	A	Y	T	O	K	L	O	W	O
C	R	G	Z	D	A	C	T	F	M	Z	V	G	X	D	D	A	T	F	A	Z	N	I	O	G	O	K	E	Y	M	H	D	K	B	T	X	J	F	W	B	Z	F	S	P	E
W	F	N	O	P	B	M	T	S	C	G	J	Z	F	I	I	A	W	D	A	P	I	N	G	O	G	Z	I	S	B	R	C	V	R	M	Y	G	Z	U	S	F	Z	T	G	C
U	P	Z	G	I	Y	M	H	K	C	V	Z	G	H	P	P	T	A	J	T	P	D	G	P	V	P	D	B	W	S	C	B	Z	D	S	L	E	M	T	Z	B	M	H	V	Y
J	J	O	W	X	N	O	Y	H	W	D	S	I	C	Z	Z	K	F	T	K	G	J	C	Y	M	Y	T	U	O	G	P	L	J	T	B	Y	K	O	C	J	V	O	B	J	A
H	X	M	H	F	A	P	J	E	B	E	K	K	E	P	J	B	T	N	Z	T	H	H	Y	W	T	A	T	E	Z	T	M	C	P	S	K	Q	L	P	R	V	W	Z	A	Y
D	B	U	E	J	X	K	F	H	N	H	K	K	T	L	Y	V	Z	U	A	O	G	G	K	V	J	J	G	R	P	V	C	A	Z	T	-	H	U	J	X	K	D	F	H	
S	W	E	F	H	S	N	G	T	I	T	P	P	H	J	P	N	O	J	H	I	O	O	N	R	V	O	P	W	S	N	K	V	H	O	T	-	I	A	Z	L	G	R	N	M
H	F	Y	T	Z	A	O	E	J	X	J	Z	Z	O	Z	T	M	J	G	U	O	I	I	V	U	X	Z	I	W	T	Z	A	P	C	I	V	-	A	V	U	P	J	O	G	P

REF ID: A4127215

5
6
Meal 3 - Station 1

ZPTDVITXWFKUIEYIFWZG00GGJVJUBNZOVVFDDJKBXY00NJR
OGXGGVYFCPVAXXOLPHFG0FFPRZPHUXM0TTJGKBSYSLFDSZ
VHEGYTYKAJITGXBZCEIONNYFJWPZDOSXXB0FGCAFV0AYF

OSHDJXJTPSBAVVOLPVTMNDBRWNCKDYIDYDEORMSFNWRG
LOTVILZYZDQKWRBEBZNXKHFXAWCHUVRYPRYRZJFLRVADKEG
FKHIGVXRYASVULEUZAGFENSIRFKLOB00BORZAYTOKL0W0

WFN0PBRITS0GJZFI1AWDAPINGOGZISBR0VRMYGZUSFZT00
UPZGIYMHKKCVZGHPPTAJTPO0PVYPPDBW50BZD0SLEMTZBMVY
JJOWXNOYHWD0SICZKZKFTK0J0YMYTU00PLJTBTK00JV0BJA

DBUEJXKFFHNHKKTLTYVZUA0GGKVJJGRRPVCAZT_HUJXKDFH
SWEFHSNGTITPPHJPN0JHI00NRV0PWSNKVHOT_IJAZLGRNM
HFTYTTZAOEJXJZZOZTMJGU0IIVUXZIWTTZAP0IV_AVUPJ0GP

Stopping wheel 3 Section 1

ZPTIDVITXWFKUIEYIFWZG00GJVVJUBNZOVVFDJKBXYOONJR
OGXCGVYFCRPVAXOLPHFGOFFPRZPHUXMOTTJGKBYSYLFDSSZ
VHEGYTYKAJITGXBZCEIONNYFJWPZDOSXXB OFGCAFVCA YF

DSHDJXJTPSBVVVOLTMTNDBRWNCCKDYIDYDEORMSFMNWRG
LOTVILZ YD GKMRBEZ NKXHF XAWCHUVRYPRYZJFLRVADKEG
FKHIGVXRYASVULEUZAGFENSIRFKLOBDOBORZAYTOKLOWO

WFNOFBMTSCGGJZFI IAWDAPINGOGZISBROVRMYGZUSFZTGCC
UPZGIYMHKCVZGH PPTAJT PDGPPV PDBWSSCBZD SLEM TZBMHVY
JJOWXNOYHWD SICZZKFTKGGJCYMYTUOGPLJTB YKOCJVOBJA

DBUEJXKFNHKKKTL YVZUAOGGKVVJGRRPVCAZT_HUJXKDFH
SWEFHSNGTITRPHJPN OJHI OONRVOPWSNKVHOT_I AZLGRNM
HFY TZA O E J X J Z Z O Z T M J G U O I I V U X Z I W T Z A P C I V _ A V U P J O G P

Handwritten: Section 1
Sheet 3

ZPTDVI TXWFKUI EYIFWZG00GJVJUBNZOVVFDJKBX Y00NJR
OGXCGVY FCPVAXOL PHFGOFFPRZPHUXMOTTJGKBYSLFDSZ
VHEGYT YKADJITGXBZCEIONNY FJWPZDOSXXBOFGCAFVCA YF

DSHDJXJTPSBAYVOLPVTMNDBRWNC KDYIDYDEORMS FWNWRG
LOTVILZZY DGKMRB EZNKXHF XAWOHUVRYPRYZJFLRVADKEG
FKHIGVXRYASVUL EUZAGFENS IFRFKLOBDOBORZAYTOKLOWO

WFNOPBMTSOGJZFIIAWDAPINGOGZISBRCV RMYGZUSFZTGC
UPZGIYMHKCVZGHPRPTAJJTPDGPVPDBWSOBZDSLEM TZBMHVY
JJOWXNOYHWDSICZZKFTKGJGYMYTUOGPLJTB YKOCJVOBJA

DBUEJXKFHNHKKTLTYVZUAOGGKVJJGRRPVC AZT_HUJXKDFH
SWEFHSNGTITPHJPNQJHIOONRVOPWSNKVHOT_IAZLGRNM
HFY TZAOEJXJZZOZTMJGUOII VUXZIWITZAPCIV_AVUPJOGP

abel 1 - Section 2

0	G	A	K	H	R	J	C	K	L	A	W	U	J	T	Z	F	Y	T	I	A	Y	W	C	A	M	C	W	R	K	F	O	B	I	V	X	F	K	T	D	O	R	G	F	F	
1	S	L	M	R	T	I	E	M	D	R	B	B	H	O	U	K	N	S	M	V	M	N	M	E	R	U	V	X	M	K	G	C	Z	K	H	U	K	F	Z	M	B	D	B	L	C
2	R	K	R	L	Y	V	L	M	F	U	Y	J	S	F	L	N	U	W	S	P	C	E	X	L	A	E	W	A	H	P	C	Y	P	U	J	D	L	K	O	C	X	S	H	F	R
3	T	C	M	B	Y	T	R	O	E	Z	N	W	P	N	K	C	J	O	B	Y	U	Z	R	L	E	Y	G	N	G	Z	M	U	Z	P	G	U	L	W	J	F	A	Y	K	C	R

20	D	U	Z	O	V	X	U	Y	X	G	A	G	J	K	C	J	O	X	C	H	U	I	I	P	T	L	T	F	H	P	F	V	S	M	L	X	S	R	D	T	Y	P	F	N	W
21	X	V	R	U	M	N	J	L	E	W	P	U	M	A	H	R	S	O	B	Y	K	U	R	C	A	Y	U	B	S	U	E	K	F	U	P	K	I	G	B	W	D	R	G	Y	
22	S	B	S	L	H	P	U	J	N	L	I	S	M	X	N	T	F	J	K	B	T	F	F	S	Y	N	M	V	U	W	V	F	K	X	B	M	K	V	G	X	C	R	N	F	K
23	P	L	T	O	F	S	G	F	O	U	W	E	M	Y	E	W	Z	Z	H	C	V	Z	Z	N	G	S	C	P	V	F	P	H	G	Z	X	L	G	T	O	V	A	B	E	H	Z

4	G	I	A	W	W	R	X	G	Y	L	E	H	Y	I	G	P	O	L	H	H	X	G	S	D	S	X	A	U	W	I	Y	K	B	V	K	C	X	T	U	R	E	C	B	G	A
5	N	S	B	H	H	L	I	Z	M	S	P	U	M	N	V	Z	J	D	R	R	Y	J	B	Y	B	H	M	W	M	O	N	G	D	L	P	V	A	N	S	M	B	J	Z	L	N
6	Z	D	Y	B	B	N	X	G	L	Y	N	X	L	G	I	Z	V	T	C	C	L	P	X	J	X	S	C	E	X	N	E	I	G	N	V	W	R	D	G	H	X	R	P	Y	F
7	O	L	N	M	M	S	G	I	J	M	B	K	J	C	Z	E	V	L	P	P	Y	W	K	D	K	N	U	A	R	N	Z	X	O	W	I	G	B	A	O	G	S	R	Z	V	J

15	A	E	I	X	L	O	F	I	V	D	A	N	R	F	V	S	K	O	E	F	B	T	G	V	L	X	D	E	P	J	O	K	L	S	K	M	D	V	O	I	D	P	R	K	J
16	E	A	I	M	P	P	I	F	T	M	V	M	D	F	A	D	Y	A	M	C	P	G	A	M	C	N	D	S	A	U	M	A	H	V	A	G	Z	Y	S	A	V	M	G	U	S
17	R	C	Y	Z	F	D	S	M	Y	C	D	U	S	W	M	E	U	C	S	R	U	P	A	H	O	P	W	F	H	Y	S	X	I	G	X	U	E	L	F	S	D	L	O	C	X
18	S	X	U	E	F	Y	D	E	R	F	Y	C	Y	G	V	S	G	J	M	A	G	I	P	F	E	S	U	L	C	Z	X	Y	A	Z	Y	S	A	P	Z	X	C	Y	E	F	L

REF ID:A4127215

Whead 1

Block 1

Block 2

Sect 1

SLMRTIEMDRBBHOUKNSSWVMNNERUVXMKKGCZKHUKFZMBDBLQ
 RKRLTYVLMFYUJSFLNUWSSPCEXLLAEWAHPQYPUJDLKOOXSHFR
 TOMBYTRROEZNWPNKCUOBYUZRLLEYGNGZMUZPGLWJFAYKCR

XVRUMNJLEWPUMAHRSOBYKCUURCA YUBSUEKFUPKIGBWD RGY
 SBSLHPUNLISMXNT FJKBTFFSYNMVUWVFKXBMKVGGXCRNFK
 PLTOFSGFOUWEMYEWZZHGVZZZNGSCPVFPHGZZX LGTOVABEHZ

NSBHLLIZMSPUMNVZJDRRYJBYBHMWMONGDLPVANSMBJZLN
 ZDYBBNXGLYXNLGIZVTCCLPXXJXSCEXNEIGNVWRDGHXRPFYF
 OLNMMSGIJMBKJ DZEVLPPTYWKDKNUARNZXOWIGBAOGSRZVJ

EAIMPPIFTMVMDFADYAMGPGAMCND SAUMAHVAGZXS AVMGUS
 RGYZFD SMYCDUSWMEUCSRUPAHOPWFHY SXIGXUELFSDLOCK
 SKUEFYDERFXCYGVS GJM RGI PFESU L CZXYAZYSAPZXCYEFL

Walter New Sabin

0 A I K N R J O K L L A W U J T Z F Y T I A Y W O A B C W R K F O B I V X F K T O O R G F F

18 D U Z O V X U Y X G A G J K C J O X C H U I P T L T F H P F V S M L X S R D T Y P F N W

4 Q I A W R R X G Y L E H Y I G P O L N H X G S O S X A U W I Y K B V K C X T U R E O B G A

A E I X L G F I V D A N R F V S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J

Wheel 3

Section V

Q A I K H R J C K L A W U J T Z F Y T I A Y W C A M C W R K F O B I V X F K T D O R G F F

Blank musical staff lines

D U Z O V X U Y X G A G J K C J O X O H U I I P T L T F H P F V S M L X S R D T Y P F N W

Blank musical staff lines

G I A W R X G Y L E H Y I G P O L H H X G S D S X A U W I Y K B V K C X T U R E C B G A

Blank musical staff lines

A E I X L O F I V D A N R F V S K O E F B T G V L X D E P J O K L S K M D V O I D P R K J

Blank musical staff lines

Week 1

Section 2

6

SLMRTIENORRBBHOUKNSMVNMNERUVXMKGOCZKHUKFZMBDBLC
 RKRLTYVLMFYJJSFLNUWSPOEEXLAEWAHPCTYPUJDLKCOXSHFR
 TOMBYTRQEZWNWPNKCOJQBYUZRLEYGNGZMUZPGULWJFA YKCR

XVRRUWNJLEWPUMAHRSOBYKURCA YUBSSUEKFFUPKIGBWDRGY
 SBSLHPUJNLISM XN T F J K B T F F S Y N W V U W V F K X B M K V G X C R N F K
 PLTOFGSGFOUWEM YEWZZHC VZZNG SC P V F P H G Z X L G T O V A B E H Z

NSBHHLLIZMSPUMNVZJDRRYJBYBHHWRONGOLP VANSMBJZLLN
 ZDYBBNXGLYNXLGIZV TOCLPXJXSCEXNEIGNVWRDGHXRPFYF
 OLNMMSGIJMBKJGZEV LPPYWKOKNUARNZXOWIGBAOGGRZVJ

EAIHPPIFTWVMDFA DYANCPGARONDS AU MAHVAGZXS AVMGUS
 RQYZFDGMYCDUSWM EUOSRUPAHO PWFHY SXIGXUELFS DLOCKX
 SKUEFYDERFXCYGVSGJMRGIPFESULCZXYAZYSAPPZXC YEF L

Wheel 1

Section 1

Block

3

S L M R T I E M D R B B H O U K N S M V M N M E R U V X M K G C Z K H U K F Z M B D B L C
 R K R L Y V L M F U Y J S F L N U W S P C E X L A E W A H P C Y P U J D L K O C X S H F R
 T C M B Y T R O E Z N W P N K C J O B Y U Z R L E Y G N G Z M U Z P G U L W J F A Y K C R

4

X V R U M N J L E W P U M A H R S O B Y K U U R C A Y U B S U E K F U P K I G B W D R G Y
 S B S L H P U J N L I S M X N T F J K B T F F S Y N M V U W V F K X B M K V G X C R N F K
 P L T O F S G F O U W E M Y E W Z Z H C V Z Z N G S C P V F P H G Z X L G T O V A B E H Z

N S B H H L I Z M S P U M N V Z J D R R Y J B Y B H M W M O N G D L P V A N S M B J Z L N
 Z D Y B B N X G L Y N X L G I Z V T C C L P X J X S C E X N E I G N V W R D G H X R P Y F
 O L N M M S G I J M B K J C Z E V L P P Y W K D K N U A R N Z X O W I G B A O G S R Z V J

E A I M P P I F T M V M D F A D Y A M C P G A M C N D S A U M A H V A G Z X S A V M G U S
 R C Y Z F D S M Y C D U S W M E U C S R U P A H O P W F H Y S X I G X U E L F S D L O C X
 S X U E F Y D E R F X C Y G V S G J M R G I P F E S U L C Z X Y A Z Y S A P Z X C Y E F L

REF ID: A4127215

NUMBER 1130 FROM PARIS AUGUST 9

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Com
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ERY	JER	HPY	RDY	XGUD	XBGV	JJO	JJK	GAR	LFF	KFF	FOB	IGD	AZL	CTLM	1
WMO	CYR	HVC	XJVV	WUW	LTMP	PVD	NIOP	NYAZ	YAZY	ZYZ	EXG	PGW	KOL	II	2
CRG	ZDA	CTFM	ZVVG	XDDA	TFAZ	NIOP	NYAZ	YAZY	ZYZ	EXG	PGW	KOL	II	3	
HXM	HTA	APJE	BEKE	PEPJ	BTNZ	THHY	WTATE	ZTMC	PSK	QLPR	VWZ	AY	HT	4	
GAI	KHR	JCKL	AWU	JTZ	FYTI	AYWC	AMC	WRKF	OBIV	XFK	TDRG			5	

DUZOVXUYXGAGJKCJOXCHUIIPTLTFHPFVSM LXSRDTYPF NW 6

GIAWWRXGYLEHYIGPOLHHXGSDSXAUIYKBVKCXTURECBGA 7

AEIXLCFIVDANRFVSKOEFBTGVLXDEPJOKLSKMDVOIDPRKJ 8

TRFLKBNEYLYDZKLSBYHGINATWIRPRAFVMVMHXZWKBZECF 9

UBZBYUNSGKSWLENSMUTNGYOLHLYXTWHZNINPKYNHZUPXG 10

PVULDEDAONYAGNBCKMCJIMGYDJE BGRHLOTMLTYDEJJPVB 11

TCUTEUWWNCINLVMALTAZSZXBHYBAZWGMJOSXWPOYBWQBG 12

WRXKVIIPGHXEXPZDNTPEMUIYVIALBOWSGRMLFHელიJDYE 13

SEPD LZBOKBHJYITJZEDMNSMPVVULUAVGHWKTOKPIYUJ 14

INVURMTSOYWVDMBVBF AEIGFNCVBTBXJHUWFCIXKFNJRFL 15

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FREQUENCY A B C D E F G H I J K L M
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