J N J NN J VUQHRTGUETKOKPI 'KPHQTO CVKQP

Vj gug'j ki j rki j vu'f q'þqv'kpenvf g'cm'vj g'lphqt o cvkqp'þggf gf 'vq'vwg'' CNKO VC'tichgr('cpf 'ghtgevkxgr(0Ugg'hvmir t guet kdlpi 'kphqt o cvkqp'hqt'' CNKO VC0

CNKO VC'*rgo gw
t gzgf hqt 'hplgewlqp+'N{ qrj hdk gf Rqy f gt.'hqt 'Uqnw
lqp'hqt '' Kpwt cxgpqwu'Wig

KolskertWUUCrrt qxcn24226

CNKO VC $^{\otimes}$ ku'c'hquevg'epenqi 'o gvedqrke'kpj kdkqt'kpf keevgf 'hqt <

- Nqecm{"Cf xcpegf"qt"O gvcuvcvle"P qpus wco qwu'P qp/Uo cm!Egm!Nwpi " Ecpegt
 - Kpksken'stgevo gpv'kp'eqo dkpcskqp'y ksj 'ekur neskp0*308+
 - O ckpvgpcpeg"tgcvo gpv"qh"r cvkgpvu"y j qug"f kugeug"j cu"pqv" r tqi tguugf "chvgt "hqwt"e{ergu"qh"r ncvkpwo /dcugf "hktuv/nkpg" ej go qvj gtcr {0*304+
 - Chygt"r tkqt"ej go qyj gtcr { "cu"c"ukpi ng/ci gpv0*305+
- O guqvj grkqo c<kp"eqo dkpcvkqp"y kvj "ekur rcvkp0"*306+

Nko kscvkqpu'qh'Wug<

 CNKO VC 'ku'pqv'kpf kecygf 'hqt 'vj g'vt gevo gpv'qhi'r cvkgpvu'y kyj "us wco qwu" egmi'pqp/uo cmi'egmi'nxpi "ecpegt0"30"+

- Eqo dkpc\kqp"\wg"\p"Pqp/Uo cmEgm\Nwpi "Ecpegt"cpf "O guq\j gnkqo c<" Tgeqo o gpf gf "f qug"qhl'CNKO VC"\ku"722 o i lo 4 k0x0'qp"F c{"3"qh"gcej " 43/f c{"e{eng"\p"eqo dkpc\kqp"y k\j "ekur nc\kp"97 o i lo 4 k0x0'dgi kppkpi " 52 o kpwgu"chgt "CNKO VC"cf o kpkntc\kqp0\%408+</p>
- Ukpi ng/Ci gpt/wug'lp'P qp/Uo cmEgml'Nwpi "Ecpegt <T geqo o gpf gf "f qug" qh'CNKO VC'lu'722 o i lo 4 k0x0'qp"F c{ 3"qh'gcej "43/f c{"e{erg0*404+
- Fqug"Tgf we\u00e4qpu\u00e4Fqug"tgf we\u00e4qpu\u00e4tq bwc\u00e4qp"o c{"dg"pggf gf " dcugf "qp"\u00e4qzksk\u00e4uhq vj g"r tgegf \u00e4pi "e{eng"qh"yj gtcr {0*406+

- 322 o i "xkcn'hqt 'kplgevkqp"*5+
- 722 o i "xkcn'hqt 'kplgevkqp"*5+

 $\label{eq:control_state} J \ kuvqt \{ \ ''qh''ugxgtg''j \ \{ r \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq''r \ go \ gvtgzgf \ 0 \ ''6 + \ gtugpukkxkv \} \ ''tgcevkqp''vq'' \ go \ gvtgzgf \ 0 \ ''tgcevkqp''vq''' \ go \ gvtgzgf \ 0 \ ''tgcevkqp''vq''' \ go \ gvtgzgf \ 0 \ ''tgcevkqp''vq'' \ go \ gvtgzgf \ go \ gvtgzgf \ go \ gvtgzgf \ go$

- Rtgo gf lecslqp"tgi ko gp<"lputwev'r cslgpvu"\q"vcmg"hqrle"celf "cpf"
 xlsco kp D₃₄0Rtgstgcvo gpv'y kj "f gzco gyj cuqpg"qt "gs wkscngpv'tgf wegu"
 ewcpgqvu"tgceslqp0%703+
- Dqpg"o cttqy "uwr r tguukqp<"T gf weg"f qugu"hqt "uwdugs wgpv"e{engu"dcugf "qp" j go cvqnqi ke"cpf "pqpj go cvqnqi ke"qzkekkgu0*704+
- Tgpcnhwpevkqp<"Fq"pqv"cfo kpknygt"y j gp"EtEn">67 o Nlo kp0"406."705+
- PUCKFu'y kij 'tgpcn'kpuwhhkelgpe(<'Wig'ecwklqp'kp'rcvkgpur'y kij 'o knf 'vq' o qf gtcvg'tgpcn'kpuwhhkelgpe('*EtEn'67/9; o Nlo kp+0*706+
- Ncd"o qpkqtkpi <"Fq"pqv'dgi kp"pgzv'e{erg"wprguu"CPE" 3722 egmulo o ⁵." r rcvgrgwi" 322.222 egmulo o ⁵."cpf "EtEn" 67 o Nlo kp0**707+
- Rtgi pcpe{
 Hgwnij cto "ecp"qeewt"y j gp"cf o kpkuwgtgf "vq"c"rtgi pcpv"
 y qo cp0'Y qo gp"uj qwnf "dg"cf xkugf "vq"wug"ghhgevkxg"eqpvtcegr vkqp"
 o gcuwtgu"vq"rtgxgpv"rtgi pcpe{"f wtkpi "vtgcvo gpv"y knj "CNKO VC0*7(8+

Vj g'o quv'eqo o qp''cf xgtug''tgcevkqpu''*kpekf gpeg" 42' +'y kj 'ukpi rg/ci gpv'wug'' ctg'hevki wg. 'pcwugc. 'cpf 'cpqtgzkc0'Cff kklqpcn'eqo o qp''cf xgtug''tgcevkqpu''y j gp'' wugf 'kp''eqo dkpcvkqp''y kj ''ekur revkp''kpenxf g''xqo kklpi .''pgwxtqr gpkc.''rgwnqr gpkc.'' cpgo kc.''uxqo cvkklulr j ct $\{$ pi kklu.''yj tqo dqe $\{$ vqr gpkc.''cpf ''eqpurkr cvkqp $\}$ *80\$+

Vq't grqt v'UWURGE VGF 'CF XGT UG'T GCE VKQP U 'eqpwcev'GrkNkrt 'epf '' Eqo r cp{ 'ev'3/: 22/Nkrt Tz'*3/: 22/767/7; 9; +'qt 'HF C'ev'3/: 22/HF C/32: : " qt 'y y y th' cti qxlo gf y cwj 0

- P UC IF u< Wug'ecwkqp'y ky 'P UC IF u0 908+
- Pgrjtqvqzke"ftwi u<Eqpeqo kcpv\wg"qh\'y gug"ftwi u"cpf kqt 'kwdurcpegu" y j kej "ctg"wdwrctn("ugetgygf "o c{ "tguwn'hp"f grc{gf "engctcpeg0\square04+

Ugg'39'hqt 'RCVKGP V'EQWPUGNIPI 'IPHQTO CVIQP'cpf'' HFC/crrtqxgf'hcvlgpv'hcdgrlpi

Tgxkugf <3314233

HWNN'RTGUETIOIPI 'IPHQTO CVIQP<EQPVGPVU,

3 IPFIECVIQPU'CPF'WUCI G

- 30B P qpus wco qwu'P qp/Uo cm'Egm'Nwpi 'Ecpegt'ó Eqo dkpcvkqp" y kj 'Ekur ncvkp
- 304 P qpus wco qwu'P qp/Uo cm'Egm'Nwpi 'Ecpegt''ó O clpvgpcpeg
- 305 P qpus wco qwu'P qp/Uo cm'Egm'Nwpi 'Ecpegt'ó Chsgt'Rtkqt" Ej go qvj gtcr {
- 306 O guqyj grkqo c
- 307 Nko kscvkqpu''qh''Wug

4 FQUCI G'CPF'CFO IP KUVTCVKQP

- 408 Eqo dkpcvkqp"Wug"y kij "Ekur nevkp
- 404 Ukpi ng/Ci gpv'Wug
- 405 Rtgo gf keckqp"Tgi ko gp
- 406 Nedqtevqt { "O qpkqtkpi "cpf "F qug"T gf werkqp IF kueqprkpwerkqp" T geqo o gpf erkqpu
- 407 Rtgr ctcvkqp"cpf 'Cf o kpkwtcvkqp'Rtgecwkqpu
- 408 Rtgr ctc.kqp'hqt'Kpvtcxgpqwu'Kphwukqp'Cf o kpkuvtc.kqp

5 FQUCI G'HQTO U'CPF'UVTGPI VJ U

6 EQPVTCIPFIECVIQPU

Y CTPIPI U'CPF'RTGECWIQPU

- 703 Rtgo gf kecvkqp'Tgi ko gp
- 704 Dqpg'O cttqy 'Uwrrtguulqp
- 705 F get gcugf 'T gpcn'Hwpevkqp
- 706 Wug'y kj 'P qp/Uygtqkf cn'Cpvk/Kphrco o cvqt { 'F twi u *P UC KF u+y kj 'O kf ''q'O qf gtcvg'Tgpcn'KpuvkHkelgpe {
- 707 Tgs wktgf 'Nedqtevqt { 'O qpkqtkpi
- 708 Rtgi pcpe{ 'Ecvgi qt{ 'F

8 CFXGTUG'TGCEVKQPU

- 803 Erkplecn''Vtkcnu''Gzr gtkgpeg
- 804 Rquv/O ctngvkpi 'Gzr gtkgpeg
- 9 FTWI 'MPVGTCEVKQPU

- 908 Pqp/Uvgtqkf cn'Cpvk/Kphrco o cvqt { 'F twi u *P UCKF u+
- 904 Pgrjtqvqzke'Ftwiu

: WUG'HP'URGE HHE'RQRWNCVKQPU

- : 03 Rtgi pcpe{
- : 05 P wtukpi 'O qvj gtu
- : 06 Rgf kcvt ke "Wug
- : 07 I gtkcvtke "Wug
- : 08 Rcvkgpvu'y kyj "J grcvke "Korcktogpv
- : (9) Rcvkgpvu'y kyj "Tgpcn'Ko r ckto gpv
- : 0 I gpf gt
- : Q Tceg

32 QXGTFQUCI G

33 FGUETHRVKQP

34 ENNPHECN'RJ CTO CEQNQI [

- 3403 O gej cpkuo "qh"Cevkqp
- 3404 Rj cto ceqf {pco keu
- 3405 Rj cto ceqnlpgvleu

35 PQPENIP HE CN'VQZ HE QNQI [

3508 Ectekpqi gpguku. "O wci gpguku. "Ko r ckto gpv"qh"Hgtvkrkv{

36 ENIPHECN'UVWFKGU

- 3608 P qp/Uo cmiEgmiNwpi "Ecpegt" *P UENE +"ő Eqo dkpcvkqp"y kyj "
- 3604 P qp/Uo cm'Egm'Nwpi 'Ecpegt'ó O ckpvgpcpeg
- 3605 Р qp/Uo cm'Egm'Nwpi 'Ecpegt'' 6 Chygt 'Rtkqt'' Еј go qyj gtcr {
- 3606 O crki pcpv'Rrgwtcri'O guqvj grkqo c

37 TGHGTGPEGU

38 JQY 'UWRRNKGF1UVQTCI G'CPF'J CPFNKPI

- 3803 Jqy "Uwrrnkgf
- 3804 Uqtci g"cpf "J cpf rkpi

39 RCVKGPV'EQWPUGNKPI 'KPHQTOCVKQP

 $3908 \qquad P \ ggf \ 'hqt'' Hqrke' Cekf ''cpf ''Xkco \ kp \ D_{34}$

3904 Nqy 'Drqqf 'Egm'Eqwpw

3905 I cuvtqkpvguvkpcn'Ghtgevu3906 Eqpeqo kcpv'O gf kecvkqpu

, Ugevkqpu"qt "uvdugevkqpu"qo kvvgf "Itqo " \dot{y} g"hvvni'r tguetkdkpi "kphqto cvkqp"ctg"pqv'rkuvgf

HWNN'RTGUETHOIP I 'IP HQTO CVKQP

3 KPFKECVKQPU'CPF'WUCI G

308 Papus wco qwu'Pap/Uo cmEgmNwpi 'Ecpegt'/ Eqo dlpcvkqp'y ky 'Ekr rcvlp

CNKO VC 'ku'lpf lecvgf 'lp''eqo dlpcvlqp''y kj ''ekur ncvlp''j gtcr { 'hqt''j g'lpklkcn'\tgcvo gpv'qh'r cvlgpvu'y kj ''nqecm(''cf xcpegf ''qt'' o gvcuvcvle''pqpus wco qwu''pqp/uo cm'egm'hwpi ''ecpegt0

304 Papus wa qwu'Pap/Uo amEgmiNwpi 'Eapegt'/ Oakpygpapeg

CNKO VC 'ku'lpf kecvgf 'lqt''y g'o ckpvgpcpeg''t gcvo gpv'qh'i'r cvkgpwi'y ky 'lqecm{ ''cf xcpegf ''qt''o gvcurcvke''pqpus wco qwu''pqp/uo cm'' egm'hwpi ''ecpegt''y j qug''f kugcug''j cu''pqv'r tqi t guugf ''chygt''hqwt''e{ergu''qh'i'r rcvkpwo /dcugf ''hktuv'rhpg''ej go qvj gtcr $\{0\}$

Pqpus wco qwu'Pqp/Uo cmiEgmiNwpi 'Ecpegt'/ Chryt 'Rt lqt 'Ej go qvj gt cr {

CNKO VC "ku"kpf kecvgf "cu"c "ukpi ng/ci gpv"hqt "vj g"vtgcvo gpv"qh"r cvkgpvu"y kij "mqecm("cf xcpegf "qt"o gvcuvcvke "pqpus wco qwu" pqp/uo cmlegm"hwpi "ecpegt "chwgt "r tkqt "ej go qvj gtcr {0

306 O guqyj grlqo o

CNKO VC 'lp'eqo dkpc lqp'y kj "ekur nc lp'ku'lpf kec vgf 'lqt' vj g'vt gc vo gpv'qh'r c llgpvu'y kj "o crki pcpv'r ngwt cri'o guqvj grlqo c''y j qug'' f kugc ug''ku''wpt gugevc drg''qt ''y j q''c t g''qvj gt y kug''pqv'ec pf kf c vgu''hqt ''ewt c vkx g''uwt i gt $\{0$

307 Nko kscylapu'qh'Wig

CNKO VC 'ku'pqv'kpf kecvgf 'hqt 'vj g'\tgcvo gpv'qh'r cvkgpvu'y kj 'us wco qwu'egm'pqp/uo cm'egm'nwpi 'ecpegt0'

4 FQUCI G'CPF'CFO IPHVTCVIQP

408 Eqo dkpcvkqp'Wig'y kyj 'Ekrrrevkp

P qpus wco qwu'P qp/Uo cmlEgmlNwpi 'Ecpegt'cpf 'O cnki pcpv'RngwtcnlO guqyi gnkqo c

Vj g'tgeqo o gpf gf "f qug''qh''CNKO VC 'ku''722 o i lo 4 cf o kpkwgtgf "cu'cp 'kpvtcxgpqwu'kphwukqp "qxgt "32 o kpwgu''qp''F c { 3''qh''gcej " 43/f c {"e {erg0Vj g'tgeqo o gpf gf "f qug''qh''ekur rc\kp'ku''97 o i lo 4 kphwugf "qxgt "4 j qwtu''dgi kppkpi "crrtqzko cvgn("52 o kpwgu''chygt "y g''gpf " qh''CNKO VC "cf o kpkwtc\kqp0Rc\kgpwu''uj qwf "tgegkxg"crrtqrtkcvg" { f tc\kqp''rtkqt '\q''cpf lqt "chygt 'tgegkxkpi "ekur rc\kp0Ugg''ekur rc\kp" r centci g'\kpugtv'\hqt" o qtg'\kphqto c\kqp0

404 Ukpi ng/Ci gpv/Wug

P qpus wco qwu'P qp/Uo cm'Egm'Nwpi 'Ecpegt

405 Rt go gf kecvkqp 'T gi ko gp

Xkvco kp'Uwrrngo gpvcvkqp

Eqt skequvgtqkf

 $\label{thm:continuous} \begin{tabular}{l} $$ $$ $Uhip'tcuj''j cu''dggp''tgrqtvgf''o qtg''htgs wgpvn{''hp r cvlgpwu''pqv'r tgvtgcvgf''y ksj ''c''eqtvlequvgtqkf 0Rtgvtgcvo gpv'y ksj ''f gzco gyj cuqpg'' *qt''gs wlxcrgpv+''tgf wegu''y g''hpelf gpeg''cpf ''ugxgtlx{''qh''ewcpgqwu''tgcevlqp0lfp''enhplecri'vtlcnu.''f gzco gyj cuqpg''6 o i 'y cu''i kxgp''d{''o qwsj '' y leg f ckn(''vj g''f c{''dghqtg.''vj g''f c{''chygt''CNKO VC''cf o kpluntcvlqp''} 0$

406 Ncdqt cwqt { 'O qplsqt lpi 'cpf 'F qug'T gf wevlqp IF kucqpvlpwcvlqp'T geqo o gpf cvlqpu O qpkqt lpi

Eqo r ngvg"dnqqf "egmleqwpvu."kpenwf kpi "r ncvgngv'eqwpvu."uj qwf "dg"r gthqto gf "qp"cml'r cvkgpwu'tgegkxkpi "CNKO VC0Rcvkgpvu'tj qwf" dg"o qpkkqtgf "hqt"pcf kt"cpf 'tgeqxgt {.'y j kej "y gtg"\guvgf "kp"\j g"enkplecn\unwf { "dghqtg"gcej "f qug"cpf "qp"f c {u : "cpf "37"qh"gcej "e { eng0' Rcvkgpvu'tj qwf "pqv"dgi kp"c"pgy "e { eng'qh"vtgcvo gpv'vprguu'tj g"CPE"ku" 3722 egmulo o 5."\j g"r ncvgngv'eqwpv'ku" 322.222 egmulo o 5."cpf " etgcvkpkpg"engctcpeg"ku" 67 o Nlo kp0Rgtkqf ke"ej go kntt { "vguvu'tj qwrf"dg"r gthqto gf "vq"gxcnvcvg"tgpcnlcpf "j gr cvke"hwpevkqp"

Fqug'Tgf wevkqp'Tgeqo o gpf cvkqpu

F qug'cf lwwo gpwi'cv'ij g'iwctv'qhi'c'iwdugs wgpv'e{erg'uj qwf 'dg'dcugf 'qp'pcf kt'j go cvqrqi ke'eqwpwi'qt'o czko wo 'pqpj go cvqrqi ke' vqzkekv{ 'htqo 'vj g'r tgegf kpi 'e{erg'qh'vj gtcr {0'Vtgcvo gpv'o c{'dg'f grc{gf vq'crrqy 'lwhhkekgpv'\ko g'hqt'tgeqxgt{0'Wrqp'tgeqxgt{.'r cvkgpwi' uj qwf 'dg'tgtgcvgf 'wukpi 'vj g'i wkf grkpgu'kp''Vcdrgu 3/5.'y j kej 'ctg'lwkxcdrg'hqt'wukpi 'CNKO VC'cu'c'lukpi rg/ci gpv'qt'kp'eqo dkpcvkqp'y kej '' ekur rcvkp0

Vcdrg 3<Fqug'Tgf wevkqp'hqt'CNKO VC *ukpi rg/ci gpv'qt'kp'èqo dkpcvkqp+'cpf 'Ekr rcvkp'/ J go cvqrqi ke'Vqzkekklgu

Pcf kt 'CPE'>722 lo o 5 cpf 'pcf kt 'r revgrgvu' 72.222 lo o 50	97' "qh'rtgxkqwu"fqug*rgogvtgzgf"cpf"ekurncvkp+(
P cf kt 'r revgrgwi'>72.222 lo o 5 y kij qwl'drggf kpi 'tgi ctf rguu'qh'pcf kt 'CPE(97' "qh'rtgxkqwu"fqug*rgogvtgzgf"cpf"ekurncvkp√f
P cf kt 'r revgrgwi'>72.222 lo o 5 y ky 'dregf kpi c.'tgi ctf rguu'qh'pcf kt 'CP E(72' "qh'rtgxkqwu"fqug*rgogvtgzgf"cpf"ekurncvkp√f

[°] Vj gug'etkıgtıkc"o ggv'\j g'EVE'xgtukqp 402" *PEK3; ; : +"f ghkpkıkqp"qh" EVE'I tcf g 4"dnggf kpi 0

Ki'r cvkgpvu'f gxgmr 'pqpj go cvqnqi ke'\qzkekkgu'*gzenvf kpi 'pgwtqvqzkek√+" I tcf g 5."\tgcvo gpv'uj qwrf 'dg'y ky j grf 'wpvkri' tguqmwkqp'vq'nguu'y cp''qt'gs wcn'vq'y g'r cvkgpvøu'r tg∕y gtcr {'xcnvg0'Vtgcvo gpv'uj qwrf 'dg'tguwo gf 'ceeqtf kpi 'vq'i wkf grkpgu'kp''Vcdng 40

Vcdrg 4<F qug'T gf wevkqp'hqt 'CNKO VC *ulpi rg/ci gpv'qt 'lp'èqo dlpcvlqp+'cpf 'Ekur rcvlp'/ P qpj go cvqmji le'Vqzlelslguf.d

	F qug''qh'CNKO VC *o i lo ⁴ +	Fqug''qh''Ekurncvkp *oilo ⁴ +
Cp{"I tcfg5"qt"6"\qzlekkgu"gzegrv'o wequkku	97' ''qh'r tgxkqwu'f qug	97' ''qh''r tgxkqwu''f qug
Cp{"f kettj ge"tgs wktkpi "j qur kerk evkqp *kttgur gevkxg"qh"I tef g+"qt"I tef g 5"qt"	97' ''qh''r tgxkqwu''f qug	97' ''qh''r tgxkqwu''f qug
6"f kettj ge		
I tcfg5"qt"6"o wequkku	72' "qh"rtgxkqwu"fqug	322' "qh"r tgxkqwu"f qug

^c PEKEqo o qp''Vqzkekv{ 'Etksgtkc *EVE+0

Vcdıg 5<Fqug'Tgf wevkqp'hqt'CNKO VC *ukpi ıg/ci gpv'\dt 'kp'\eqo dkpc\kqp+\cpf 'Ekır ıcv\kp'/ Pgwt qvqzkek\{

	F qug''qh''CNKO VC	Fqug"qh"Ekur ncvkp
EVE'I tcf g	*o i lo ⁴ +	*o i lo ⁴ +
2/3	322' "qh'r tgxkqwu"f qug	322' ''qh'i'r tgxkqwu''f qug
4	322' "qh'r tgxkqwu"f qug	72' "qh"r tgxkqwu"f qug

Fkueqp\kpwc\kqp'Tgeqo o gpf c\kqp

 $\label{eq:controller} CNKO\ VC''vj\ gtcr\ \{''uj\ qwf\ ''dg'f\ kueqpvkpwgf\ 'kh'c'r\ cvkgpv'gzr\ gtkgpegu''cp\ \{''j\ go\ cvqrqi\ ke''qt''pqpj\ go\ cvqrqi\ ke''I\ tcf\ g\ 5''qt\ 6''vqzkek\{''ku''qdugtxgf\ 0}$ $chvgt''4\ f\ qug''tgf\ wevkqpu''qt''ko\ o\ gf\ kcvgrl''kh''I\ tcf\ g\ 5''qt\ 6''pgwtqvqzkek\{''ku''qdugtxgf\ 0}$

Tgpcm{'Ko r cktgf 'Rckgpvu

Kp"enkplecniuwk kgu."r cykgpul'y ky "etgcykpkpg"engctcpeg" 67 o Nio kp"tgs wktgf "pq"f qug"cf lwwo gpvu"qy gt"y cp"y qug"tgeqo o gpf gf "hqt"cmir cykgpvu0Kpuwkhkekgpv'pwo dgtu"qh'r cykgpvu"y ky "etgcykpkpg"engctcpeg"dgmy "67 o Nio kp"j cxg"dggp"ytgcygf "yq"o cmg"f quci g" tgeqo o gpf cykqpulhqt"y ku'i tqwr "qhir cykgpvu" 0Vj gtghqtg."CNKO VC"uj qwf "pqy'dg"cf o kpkrygtgf "yq" r cykgpvu"y j qug"etgcykpkpg"engctcpeg"ku'>67 o Nio kp"wukpi "yj g"uvcpf ctf "Eqenvetqhv'cpf" I cwnv'hqto wrc *dgrqy +"qt" I HI"o gcuwtgf "d{" Ve; ; o /F RVC"ugtwo "engctcpeg"o gyj qf <

O crgu< \frac{|362"/ Ci g"kp"{gctu_"\color | CewcrlDqf { "Y gki j v\sqrt | rid | 4 \\
94"\color | Ugtwo | Etgc\kp\kpg"\io i If N\(\delta\) ? "o Nlo kp

Hgo crguk Gurko cvgf "etgcvkpkpg"ergctcpeg"hqt"o crgu"×"20 7

Ecwkqp''uj qwrf ''dg''gzgtekugf 'y j gp''cf o kpkuvgtkpi ''CNKO VC''eqpewttgpvn(''y ksj ''P UCKF u''vq''r cvkgpvu''y j qug''etgcvkpkpg''ergctcpeg'' ku''>: 2 o Nlo kp'' 0

407 Rtgrctcvkqp'cpf'Cfokpkwtcvkqp'Rtgecwkqpu

Cu'y kj "qy gt "r qygpylcm(" "qz le "cpylecpegt "ci gpvu." ect g'uj qwf "dg"gzgtelugf "lp" y g"j cpf rhpi "cpf "r tgr ctcvlqp"qh'lphwulqp" uqnwlqpu"qh"CNIO VC0'Vj g'wug"qh'i mxgu'lu't geqo o gpf gf 0'Ki'c "uqnwlqp"qh'CNIO VC "eqpycevu" y g'umlp. "y cuj "y g'umlp'lo o gf levgn("cpf" y qtqwi j n("y kj "uqcr "cpf" y cygt0'Ki'CNIO VC "eqpycevu" y g o weqwu" o go dtcpgu. "hnwij "y qtqwi j n("y kj "y cygt0'Ugxgtcn'r wdrluj gf" i wlf grlpgu"hqt" j cpf rhpi "cpf "f kur qucn'qh'cpylecpegt" ci gpvu"ctg"cxclwcdng"

CNIO VC 'ku'pqv'c'xgukecpv0'Vj gtg'ku'pq''ur gekhle 'cpvkf qvg'hqt 'gzvtcxcucvkqp''qh''CNIO VC0'Vq''f cvg.''vj gtg''j cxg''dggp''hgy 'tgr qt vgf'' ecugu'qh''CNIO VC ''gzvtcxcucvkqp.''y j kej ''y gtg''pqv'cuuguugf ''cu'ugtkqwu''d { ''y g'kpxguvki cvqt0'CNIO VC ''gzvtcxcucvkqp''uj qwrf ''dg''o cpci gf y kej ''nqecn'uvcpf ctf ''r tcevkeg'hqt''gzvtcxcucvkqp''cu'y kej ''qvj gt''pqp/xgukecpvu0

408 Rtgrctcvkqp'hqt'Kpvtcxgpqwu'Kphwkqp'Cfo kpkwtcvkqp

- 30 Wug''cugr vke''vgej pks wg'f wtkpi ''yj g'tgeqpunkwwkqp''cpf 'hwtyj gt'f knwkqp''qh'CNKO VC''hqt''kpvtcxgpqwu''kphwukqp''cf o kpknvtcvkqp0
- 40 Ecrewrcy''y g'f qug''qh'CNKO VC''cpf 'f gygto kpg''y g'pwo dgt''qh''xkcm''pggf gf 0'Xkcm''eqpyckp''gkj gt''322 o i ''qt'' 722 o i ''qh'' CNKO VC0Vj g''xkcm''eqpyckp''cp''gzeguu''qh''CNKO VC''\q''hcekkscy'f grkxgt { ''qh''rcdgri'co qwpv0

d Gzenwf kpi "pgwtqvqzkekx{"*ugg"Vcdrg 5+0

- uqnwkqp"eqpvckpkpi "47 o i lo N'CNKO VC0I gpvn("uy ktri'gcej "xkcri'wpvkri'yj g'r qy f gt "ku'eqo r rgvgn("f kuuqnx gf 0'Vj g't guwnkpi "uqnwkqp"ku'engct "cpf "tcpi gu'lp"eqnqt "ltqo "eqnqtrguu'vq"{ gmqy "qt "i tggp/{ gmqy "y kj qw'cf x gtugn("chtgevkpi "r tqf wev's wcrkx{0" Vj g'r J "qh'yj g't geqpuvkwygf "CNKO VC"uqnwkqp"ku'dgwy ggp"808 cpf 90 0'HWTVJ GT "F KNWVKQP "KU'TGS WKTGF 0
- Retgpvgteniftwi "r tqf wewi'uj qwrf "dg"kpur gevgf "xkuwem('hqt"r etvkewrevg"o ewgt "cpf "f kueqrqtevkqp"r tkqt "vq"ef o kpkurtevkqp." y j gpgxgt "uqnwkqp"cpf "eqpvckpgt"r gto kolKi'r etvkewrevg"o ewgt "ku'qdugtxgf."f q"pqv'ef o kpkurgt0
- 70 Cp"crrtqrtkcvg"s wcpvk{ "qh"y g"tgeqpuvkwwgf "CNKO VC"uqnwkqp"o wuv"dg"hwty gt"f knwgf "kpvq"c"uqnwkqp"qh"20, ' Uqf kwo " Ej nqtkf g"Kplgevkqp *rt gugtxcvkxg"htgg+"uq"y cv"y g"vqvcn"xqnwo g"qh"uqnwkqp"ku"322 o n0CNKO VC"ku"cf o kpkuvgtgf "cu"cp" kpvtcxgpqwu"kphwukqp"qxgt"32 o kpwgu0
- 80 Ej go kecn'cpf "r j {ukecn'uvcdktk{ "qh'tgeqpurkwwf "cpf "kphrukqp"uqnwkqpu"qh'CNKO VC"y gtg"f go qpurtcvgf "hqt"wr "vq"46 j qwtu" hqmqy kpi "kpkkcn'tgeqpurkwwkqp."y j gp"uvqtgf "cv"tghtki gtcvgf "qt"co dkgpv"tqqo "vgo r gtcwtg"]ugg"WUR'Eqpvtqmgf "Tqqo " Vgo r gtcwtg_"cpf "rki j vkpi 0"Y j gp"r tgr ctgf "cu"f ktgevgf ."tgeqpurkwwkqp"cpf "kphrukqp"uqnwkqpu"qh'CNKO VC"eqpvckp"pq" cpvko ketqdlcn'r tgugtxcvkxgu0F kuectf "cp{"vpwugf"r qtvkqp0

 $Tgeqpuvkwvkqp"cpf "hwty gt"f knwkqp"r tkqt"vq"kpvtcxgpqwu"kphwukqp"ku"qpn("tgeqo o gpf gf "y kj" "20" Uqf kwo "Ej nqtkf g" Kplgevkqp %r tgugtxcvkxg"htgg+0CNKO VC"ku"r j {ukecm{ 'kpeqo r cvkdrg"y kj "f knwgpwt"eqpvckpkpi "ecrekwo . 'kpenwf kpi "Ncevcvgf "Tkpi gtøu" Kplgevkqp. WUR"cpf "Tkpi gtøu"Kplgevkqp. WUR"cpf "y gtghqtg"y gug"uj qwrf "pqv'dg"wugf 0Eqcf o kpkwtcvkqp"qh!CNKO VC"y kj "qvj gt"f twi u" cpf "f knwgpwt"j cu"pqv'dggp"uwrf kgf ."cpf "vj gtghqtg"ku"pqv'tgeqo o gpf gf 0CNKO VC "ku"eqo r cvkdrg"y kj "uvcpf ctf "r qn{ xkp{n'ej nqtkf g *RXE+" cf o kpkwtcvkqp"ugwt"cpf "kpvtcxgpqwu"uqnwkqp"dci u0$

5 FQUCI G'HQTO U'CPF'UVTGPI VJ U

CNKO VC. 'r go gytgzgf 'hqt 'kplgevkqp. 'ku'c'y j kg''q'gkj gt''hki j \sqrt{gmqy} 'qt''i tggp/ $\{gmqy$ 'n $\{qrjkrk\}$ gf 'r qy f gt''cxckrcdrg''kp''uvgtkrg'' ukpi rg/wug''xkcnt'eqpyckpkpi '322 o i ''qt''722 o i 'r go gytgzgf 0

6 EOPVTCKPFKECVKOPU

CNKO VC 'ku'eqpvtckpf kecvgf 'kp'r cvkgpvu'y j q'j cxg'c'j kuvqt { "qh'ugxgtg"j $\{r gtugpukxkxkv\} 'tgcevkqp'vq'r go gvtgzgf 'qt'vq'cp \{ 'qvj gt'' kpi tgf kgpv'vugf 'kp'vj g'hqto wrcvkqp0$

7 Y CTPKPI U'CPF'RTGECWKQPU

708 Rtgo gf lecvkqp'Tgi ko gp

P ggf 'hqt'Hqrevg''cpf ''Xkco kp D₃₄ Uwr r rgo gpvcvkqp

Rckgpul'tgcvgf "y kj "CNKO VC" o ww'dg kpurtwevgf "vq" ceng hqrke "celf "cpf "xkoco kp D_{34} cu" c"r tqr j {rcele" o gcuntg "vq" tgf weg" tgcvo gpv'tgrcvgf "j go cvqmi ke "cpf "I Kvqzkek\{" 0 kp" erkplecri'uwf kgu "rguu" qxgtcmi 'vqzkek\{" cpf "tgf welqpu" kp" I tcf g 5 16" j go cvqmi ke "cpf "pqpj go cvqmi ke "vqzkekkgu'uwej "cu" pgwtqr gpkc. "hgdtkrg" pgwtqr gpkc. "cpf "kphgevlqp" y kj " I tcf g 5 16" pgwtqr gpkc "y gtg" tgr qtvgf "y j gp" r tgvtgcvo gpv'y kj "hqrke" celf "cpf" xkoco kp D_{34} y cu" cf o kpkurgtgf 0 Eqtvkequvgtqkf" "Uwr r rgo gpvcvkqp

Unkp'tcuj 'j cu'dggp'tgrqtvgf 'o qtg'htgs wgpvn('kp'r cvkgpvu'pqv'r tgvtgcvgf 'y kij 'c'eqtvkequvgtqkf 'kp'enkplecn'vtkcm0Rtgvtgcvo gpvy kij '' f gzco gvj cuqpg'*qt'gs wkxcrgpv+'tgf wegu'vj g'kpekf gpeg'cpf 'ugxgtkx(''qh'ewcpgqwu'tgcevkqp'' 0

704 Dappy'O cttay 'Uwrrtgudap

CNIO VC "ecp" uwr r tguu'dqpg" o cttqy "hwpe klqp. "cu" o cpkhgungf "d{ "pgwxtqr gpkc." 'y tqo dqe{ vqr gpkc." 'cpf "cpgo kc" "qt" r cpe{ vqr gpkc+" ="o {grquwr r tguukqp" ku" wwcm{ "y g"f qug/nlo kkpi "vqzkek{ 0F qug"tgf wevkqpu" hqt "uwdugs wgpv"e{ ergu"ctg" dcugf "qp" pcf kt"CPE. "r ncvgrgv"eqwpv." cpf "o czko wo "pqpj go cvqrqi ke" vqzkekv{ "uggp"kp" y g"r tgxkqwu"e{ ergu" 0

705 F get gcugf 'T gpcriHwpevlqp

CNIO VC'ku'r tko ctkn("grko kpcvgf "wpej cpi gf "d{"tgpcn'gzetgvkqp0Pq'f quci g"cf lwwo gpv'ku'pggf gf "kp'r cvkgpvu'y kyj "etgcvkpkpg" engctcpeg" 67 o Nlo kp0Yfouvhhekgpv'pwo dgtu'qh'r cvkgpvu'j cxg"dggp'uwf kgf 'y kyj "etgcvkpkpg"engctcpeg'>67 o Nlo kp'vq'i kxg"c'f qug" tgeqo o gpf cvkqp0Vj gtghqtg. "CNIO VC"uj qwrf "pqv'dg"cf o kpkngtgf "vq"r cvkgpvu'y j qug'etgcvkpkpg"engctcpeg'ku'>67 o Nlo kp"

Qpg"r cvkgpv"y kyj "ugxgtg"tgpcn'ko r ckto gpv\%etgcvkpkpg"engctcpeg"3; o Nlo kp+"y j q"f kf "pqv'tgegkxg"hqnke"cekf "cpf "xkxco kp D_{34} f kgf "qhl'f twi /tgrcvgf "vqzkekkf "hqnny kpi "cf o kpknvtcvkqp"qh'CNKO VC"cnqpg0

706 Wig'y kyj 'Pqp/Uvgtqkf cn/Cpvk/Kphrco o cwqt{'Ft wi u *PUCKFu+y kyj 'O kf '\q'O qf gt cvg'Tgpcn/Kpuwhhlelgpe{

Ecwklqp''uj qwrf 'dg''wugf 'y j gp''cf o kpkurgtkpi 'P UCKF u'eqpewttgpvn('y ky 'CNKO VC''vq'r cvkgpvu'y ky 'o krf 'vq''o qf gtcvg''tgpcn' kpuwhhkekgpe{'*etgcvkpkpg''engctcpeg'htqo '67'vq''9; o Nlo kp+"

707 Tgs wkt gf 'Nedqt evqt { 'O qpkqt kpi

Rcvkgpul'uj qwrf "pqv'dgi kp"c"pgy "e $\{$ erg"qh'vtgcvo gpv'wprguu'yj g'CPE'ku" 3722 egmulo o 5 ."yj g'r rcvgrgv'eqwpv'ku" 322.222 egmulo o 5 ."cpf "etgcvkpkpg"ergctcpeg'ku" 67 o Nlo kp" 0

708 Rtgi pcpe{ 'Ecvgi qt { 'F

dgeqo kpi "r tgi pcpv0"Y qo gp"uj qwrf "dg"cf xkugf "\q"\wug"gHnge\kxg"eqp\tcegr \kxg"o gcuwtgu'\q"r tgxgp\v"r tgi pcpe{ "f wtkpi "\tgcvo gpv\'y kj CNKO VC"

8 CFXGTUG'TGCEVKQPU

808 Enlplect/Vt lcm/Gzrgt lgpeg

 $Dgecwug''erliplecn''tlcm''ctg''eqpf wevgf''wpf gt''y kf gn{''xct{kpi ''eqpf kklqpu.''cf xgtug''tgcevkqpu''tcvgu''ecppqv''dg''f ktgevn{''eqo r ctgf''vq tcvgu''lp''qyj gt''erliplecn''tlcm''ccpf''o c{''pqv'tghrgev''yj g''tcvgu''qdugtxgf''lp''erliplecn''t tcvkeg0}$

Kp"enkplecn"\them."\j g"o quv"eqo o qp"cf xgtug"\tgee\kqpu"\pekf gpeg 42' +"f wt\kpi "\j gtcr { "y kj "CNKO VC"cu"c"ukpi ng/ci gpv"y gtg" hc\ki wg."\pekugc."cpf "cpqtgz\kc0Cf f kkqpcn"eqo o qp"cf xgtug"\tgee\kqpu"\tgekf gpeg 42' +"f wt\kpi "\j gtcr { "y kj "CNKO VC"y j gp"\wugf "\kp" eqo dkpc\kqp"y kj "ekur nc\kp"\tepemf gf "xqo kkpi ."\tgewtqr gp\kc."\tgewnqr gp\kc."\tgeyo kc."\tuqo c\kkulr j ct{pi kku."\j tqo dqe{vqr gp\kc."\cpf" eqpu\kr c\kq00

Pqp/Uo cm'Egm'Nwpi 'Ecpegt *PUENE+"/ Eqo dkpcvkqp"y kyj 'Ekur ncvkp

Vcdng 6'r tqxlf gu'\j g'ltgs wgpe{"cpf 'lugxgtk\{"qh'cf xgtug'tgce\lqpu'\j c\j cxg"dggp"tgr qtygf "lp"@' "qh': 5; r c\lgp\u'\y kj "P UENE" y j q"y gtg"tcpf qo kļ gf '\q'u\wf {"cpf 'tgegkxgf 'CNKO VC"r n\wfe\textra rc\lsp\u'\cpf ": 52 r c\lsp\u'\y kj "P UENE" y j q"y gtg"tcpf qo kļ gf '\q'u\wf {"cpf "tgegkxgf "u\wf {"cpf "tgegkxgf "u\wf {"cyf "tgegkxgf" go ek\cdkpg"r n\wfe\textra rc\lsp\u'\tgegkxgf "u\wf {"y gtcr {"cu'\kpkkcn'\tgcvo gpv'\tqt"nqcm\{"cf xcpegf "qt"o g\cu\cvc\ke"P UENE" cpf "r c\lsp\u'\kp\u'\tgvo gpv'\tqt"u\tgvo gpv\f tq\u'\tgvo gpv\f tq\u'\tgvo gpv\f tq\u'\tgvo gpv\f tq\u'\tgvo gp\u'\tgvo gp\u'\

Vcdrg 6<Cf xgt ug'Tgcevkqpu'lp'Hwrf 'Uwr r rgo gpygf 'Rcylgpyu'Tgeglxkpi 'CNKO VC'r nwrEkr rcylp'lp'PUENE°

	CNKO VC lekr nevkp		I go eksedkoglekurnesko	
T an and and		:5;+	*P?:52+	
Tgcevkqp ^d	CnlI tef gu'	I tcf g'5/6'	CmI tcf gu'	I tcf g'5/6'
	Vqzlels { '** +	Vqzkekv{'* +	Vqzlelw{'*' +	
CmCf xgt ug'T gcevkqpu	; 2	59	;3	75
Ncdqtcvqt{				
"J go cvqmji ke				
""Cpgo k	55	8	68	32
""P gwtqr gpkc	4;	37	5:	49
""Ngwnqr gpkc	3:	7	43	:
""Vj tqo dqe{ vqr gpkc	32	6	49	35
"Tgpcr				
""Et gcvkpkpg"grgxcvkqp	32	3	9	3
Enlplect				
''EqpusisswikqpcrlU(orvqou				
""Hoski wg	65	9	67	7
'I cunt qlp vgunlpcr				
""P cwugc	78	9	75	6
''''Xqo kkpi	62	8	58	8
""Cpqtgzkc	49	4	46	3
""Eqpurkr cykqp	43	3	42	2
""Uqo cvkkulRj ct{pi kvku	36	3	34	2
""Fkttj gc	34	3	35	4
""F {ur gruke IJ getvdwtp	7	2	8	2
''P gwt qnqi {				
""P gwtqr cyj {/ugpuqt {	;	2	34	3
""Vcurg"f krwtdcpeg	:	2^{e}	;	2 ^e
''Fgto cyqqi { 1Unkp				
""Cnpr gelic	34	2^{e}	43	3 ^e
""Tcuj IF gus wco cykqp	9	2	:	3

Hqt "yj g"r wtr qug"qh"yj ku "cdrg"c"ew "qhh"qh"7' "y cu "wugf "hqt "kpenwukqp"qh"cm "gxgpvu"y j gtg"yj g"tgr qt vgt "eqpukf gtgf "c"r quukdrg" tgrc vkqpuj kr "vq "CNKO VC0

Kp"cffkkqp"\q"vjg"mygt"kpekfgpeg"qh"jgocvqmike"\qzkek{"qp"\yjg"CNKOVC"cpf"ekur nc\kp"cto."\wug"qh'\tcpuhwukqpu'**TDE"cpf" rncvgny+"cpf"jgocvqrqkg\ke"itqyyj"hcevqtu'ycu'mygt"kp"yjg'CNKOVC"cpf"ekur nc\kp"cto"eqorctgf"\q"yjg'igoekxcdkpg"cpf"ekur nc\kp"cto0

 $^{^{\}rm d}$ Tghgt "vq"P EKE VE "Et kıgt kıc "x gt ukqp 402 'hqt "gcej "I $\,$ tcf g"qh' vqz ke kı(0

[°] Ceeqtfkpi "\q"PEKEVE"Etkgtkc"xgtukqp 402."\yj kı"cfxgtug"gxgpv\\gto "uj qwrf"qpn("dg"tgrqt\gf"cu"I tcfg 3"qt"40

 $[\]label{thm:continuous} Vj g'hqmqy kpi ''cf f kklqpcn'cf xgtug'tgcevkqpu'y gtg''qdugtxgf 'kp'r cvkgpvu'y kyj ''pqp/uo cm'egm'hwpi ''ecpegt'tcpf qo n{ ''cuuki pgf ''vq'' tgegkxg'CNKO VC''r nwu''ekur ncvkp0 }$

Vj g'hqmqy kpi ''cf f kkqpcn'cf xgtug'tgcevkqpu'y gtg''qdugtxgf ''kp''r cvkgpvu'y kyj ''pqp/uo cm'egm'hwpi ''ecpegt'y j q tgegkxgf ''CNKO VC0 **Kpelf gpeg'3' ''vq'7'**

- ô cnqr gekc. 'r twtk kulkej kpi
- ô eqpuskr cskqp
 - ô gf go c.'hgxgt'\degreg'\dipgwtqrgpkc+
- ô yi tqo dqe{ vqr gpkc
- $\hat{o} \quad f \ get g cugf \ "et g c v lp lp g "er g c t cpeg." lp et g c ugf \ "et g c v lp lp g. "f \ get g c ugf \ "i \ mo \ gt w r c t \ 'h k n t c v lq p \ 't c v g$
 - ô qewrct "uwthceg" f kugcug "*kpenwf kpi "eqplwpevkxkku+; "kpet gcugf "ncet ko cvkqp

Kpelf gpeg'Ngur'ij cp'3'

- ô uwr tcxgpvtkewrct "cttj { yj o kc
 - ô gt { yj go c'o wnkhqto g
 - ô hgdtkrg"pgwtqrgpkc."cmgti ke"tgcevkqp1j {rgtugpukxkxk{
- ô o qvqt "pgwtqr cyj {
- ô tgpcnlhcknwtg

Pqp/Uo cm/Egm/Nwpi 'Ecpegt *P UENE+"ó Chygt 'Rtkqt 'Ej go qvj gtcr {

 $\label{eq:continuity} Vcdng~8"r~tqxkf~gul"j~g"htgs~wgpe{"cpf~ugxgtk/~qhl"cf~xgtug"tgcevkqpul"j~cvl"j~cxg"dggp"tgr~qtvgf~lkp"@"~qhl487~r~cvkgpvultcpf~qo~n("cuuki~pgf~vq"tgegkxg"ukpi~ng/ci~gpvlCNKO~VC"y~kj~lhqhe"cekf~lcpf~xksco~kp~D_{34}~uwr~r~ngo~gpvcvkqp"cpf~498~r~cvkgpvultcpf~qo~n("cuuki~pgf~vq"tgegkxg"ukpi~ng/ci~gpvll~qegvczgn0Cmlr~cvkgpvuly~gtg"f~lci~pqugf~y~kj~lnqecm("cf~xcpegf~qt"o~gvcuvcvke"P~UENE~cpf~ltgegkxgf~r~tkqt"ej~go~qvj~gtcr~\{0$

Vcdrg 8<Cf xgt ug'Tgcevkgpu'lp'Hwrf 'Uwr r rgo gpygf 'Rcykgpyu'Tgegkxkpi 'CNKO VC'xgt uwu'F gegwczgrlkp'P UENE^c

Vcdrg 8 <cf 'cnio="" 'rcvlgpwi't="" 'uwr="" geglxlpi="" gpvgf="" qegvczgrllp'p="" r="" rgo="" th="" uene<="" ug't'gcevlqpu'lp'hwnt="" uwu'f="" vc'xgt="" xgt=""></cf>					
	= '	CNKO VC *P ? 487+		F qegwzgr *P?498+	
Tgcevkqp ^d					
Тестир	CmI tcf gư	I tcf gu'5/6'	CmII tcf gu'	I tcf gu'5/6'	
	Vqzleks{ '** +	Vqzlekv{ '** +	Vqzlels/{'** +	Vqzlels{'*' +	
Ncdqtcvqt{					
''J go cvqmqi ke					
""Cpgo kc	3;	6	44	6	
""Ngwnqr gpkc	34	6	56	49	
""P gwtqr gpkc	33	7	67	62	
""Vj tqo dqe{ vqr gpkc	:	4	3	2	
"J grevle	·				
""Kpetgcugf 'CNV	:	4	3	2	
""Kpet gcugf 'CUV	9	3	3	2	
Enplecr	·				
"I cust qlpvguslpcr					
""P cwugc	53	5	39	4	
""Cpqtgzkc	44	4	46	5	
""Xqo kkpi	38	4	34	3	
""Uqo cvkkulRj ct{pi kku	37	3	39	3	
""Fkettj ge	35	2	46	5	
""Eqpurkr cykqp	8	2	6	2	
"EqpusiswskqpcrlU(orvqou	·				
""Hcvki wg	56	7	58	7	
""Hgxgt	:	2	:	2	
"Fgto evqqqi { 1Unkp	·				
""Tcuj IF gus wco cykqp	36	2	8	2	
""Rt wt ksku	9	2	4	2	
""Cmr gekc	8	3 ^e	5:	4 ^e	
	II.				

Hqt "ij g"r wtr qug"qh"ij ku"vcdrg"c"ewi'qhhi'qh'7' "y cu"wugf "hqt "kpenwukqp"qh"cm"gxgpvu"y j gtg"ij g"tgr qtvgt "eqpukf gtgf "c"r quukdrg" tgrcvkqpuj kr "vq"CNKO VC0

P q"enkplecm("t grgxcpv"f khhgt gpegu"hp"cf x gt ug"t gcevkqpu"y gt g"uggp"kp"r cvkgpvu"dcugf "qp"j kuvqmi {0}
Enkplecm("t grgxcpv"cf x gt ug"t gcevkqpu"qeewt t kpi "kp">7' "qh"r cvkgpvu"yi cv"t gegkx gf "CNKO VC"vt gc vo gpv"dw"@' "qh"r cvkgpvu"yi cv"t gegkx gf "f qegvczgn"kpenvf g"EVE"I t cf g 5 16' hgdt kng"pgwt qr gpkc"*30, 'CNKO VC."3409' f qegvczgn#0

 $^{^{\}rm d}$ Tghgt'\q'P EKEVE'Etk
gtkc'hqt'rcd'xcnwgu'hqt'gcej 'I tcf g'qhl\qzkek{ '*xgtukqp 402+0 }

 $\label{thm:continuous} Vj g'hqmqv kpi "cff kkqpcrl'cf xgtug'tgcevkqpu'y gtg''qdugtxgf''kp''r cvkgpvu'y kvj ''pqp/uo cml'egml'nvpi ''ecpegt'tcpf qo n{ ''cuuki pgf''vq'' tgegkxg''CNKO VC0}$

Kpelf gpeg'3' 'tq'7'

 $\hat{o} - cdf$ qo kpcnl
r ckp. "cmgti ke 'tgcevkqp lj $\{r$ gtugpuk
kxkk{. 'hgdtkmg 'pgwtqr gpkc. 'kphgevkqp

ô gt{yjgoc'ownwkhqtog

ô o qvqt "pgwtqr cyj {."ugpuqt { "pgwtqr cyj {

ô kpetgcugf 'etgckpkpg

Kpelf gpeg'Ngur'tj cp'3'

 $\hat{o}~$ uwr texgp
tkewret "ettj $\{yj~o~keu$

O crki pcpv'RrgwtcrlO guqvj grkqo c *O RO +

 $\label{eq:continuous} Vcdng 9'r tqxkf gu''j g'htgs wgpe { "cpf "ugxgtk/{ "qh"cf xgtug" tgce-kqpu"'y cv'j cxg"dggp" tgr qtvgf "kp"@' "qh"38: r cvkgpvu"y kj " o guqvj grkqo c"y j q"y gtg" tcpf qo n{ "cunki pgf "vq" tgegkxg" ekur ncvkp" cpf "CNKO VC" cpf "385 r cvkgpvu"y kj "o guqvj grkqo c"tcpf qo n{ "cunki pgf "vq" tgegkxg" ukpi ng/ci gpv" ekur ncvkp0Kp" dqvj "vtgcvo gpv" cto u. "vj gug" ej go qpckxg" r cvkgpvu"y gtg" hwn{ "uwr r ngo gpvgf" y kj "hqrke" cekf" cpf " xkco kp <math>D_{34}0$

Vcdrg 9<Cf xgt ug'Tgcevkqpu'lp'Hwn('Uwr rigo gpvgf 'Rcvlgpwi'Tgegkxlpi 'CNKO VC'r nwi'Ekr rcvlp'lp'O RO c

Torontom ^d	CNIO VC1ektr it slip *P ? 38: +		Ekrævlp *P?385+	
Tgcevkqp ^d	Cmil tcf gu' Vqzlels{ '* +	I tcf g'5/6' Vqzlels{ '* +	CmII tcf gu' Vqzlek√{'* +	
Ncdqt cvqt {				
''J go cyqrqi ke				
""P gwtqr gpkc	78	45	35	5
""Ngwnqr gpkc	75	37	39	3
""Cpgo kc	48	6	32	2
""Vj tqo dqe{vqr gpkc	45	7	;	2
"Tgpcr				
""Et gcvkpkpg grgxcvkqp	33	3	32	3
""Et gc.\pkpg"ergctcpeg"f get gcugf	38	3	3:	4
Enplecr				
"G{g'Fkqtfgt				
""Eqplwpevkxkku	7	2	3	2
"I cust alpogusper				•
""P cwigc	: 4	34	99	8
""Xqo kkpi	79	33	72	6
""Uqo cvkkulRj ct{pi kku	45	5	8	2
""Cpqtgzkc	42	3	36	3
""Fkttj gc	39	6	:	2
""Eqpurkr cykqp	34	3	9	3
""F {ur gr ukc	7	3	3	2
"EqpuNswNqpcrlU(orvqou				
""Hoski wg	6:	32	64	;
"O gwedqrkuo 'cpf 'P wt kskyp				
""Fgj {ftcwkqp	9	6	3	3
"Pgwt qnqi {				
""P gwtqr cyj {/ugpuqt {	32	2	32	3
""Vcuvg"F kuwtdcpeg	:	2 ^e	8	2 ^e
''Fgto cvqqqi { 1Unlp				
""Tcuj	38	3	7	2
""Cmr gekc	33	2 ^e	8	2 ^e

Hqt''yj g'r wtr qug''qh''yj ku''vcdrg''c''eww'qhh'qh'7' 'y cu''wugf 'hqt''kpenwukqp''qh''cm'gxgpvu''y j gtg''yj g'tgr qtvgt''eqpukf gtgf 'c''r quukdrg'' tgrcvkqpuj kr ''vq''CNKO VC0

Vj g'hqmqy kpi "cff kkkqpcn'cf xgtug'tgcevkqpu'y gtg"qdugtxgf "kp"r cvkgpvu'y kyj "o cnki pcpv'r ngwtcn'o guqvj gnkqo c"tcpf qo n{ "cuuki pgf "vq"tgegkxg"CNKO VC"r nwu"ekur ncvkp0

^d Tghgt'\q"PEKEVE'Etksgtlc'xgtulqp 402'hqt'gcej "I tcf g"qh'\qzlek\{ "gzegr v'\j g'\gto "ŏetgc\lpkpg"engctcpeg"f getgcugf ö'y j lej 'lu'f gtlxgf" htqo '\j g'EVE'\gto 'ŏtgpcnli gpkqwtlpct {/qvj gtö0

[°] Ceeqtf kpi "vq"PEKEVE"Etksgtkc"xgtukqp 402."vj ku"cf xgtug"gxgpv"vgto "uj qwrf "qpn("dg"tgr qtvgf "cu"I tcf g 3"qt"40

- ô hgdtkrg"pgwtqrgpkc."kphgevkqp."r {tgzkc
- ô wtwectko
- ô ej guv'r ckp
 - ô kpetgcugf 'CUV.'kpetgcugf 'CNV.'kpetgcugf 'I I V

ô tgpcn'hcknwtg

Kpelf gpeg'Nguu'tj cp'3'

ô cttj {yjokc

ô o qvqt 'pgwtqr cyj {

Głłgevu''qh''Xkco kp''Uwr r rgo gpvcvkqpu

 $Vcdng: "eqorctgu \ y' \ g'' kpekf \ gpeg''' r \ gtegpvci \ g''qh''r \ c' kgpvu+''qh''EVE'' I \ tcf \ g \ 5 \ 16'' \ qz kekkgu'' kp''r \ c' kgpvu'' y \ j \ q'' tgegkx \ gf''x kxco \ kp'' uwr \ r \ ngo \ gpvc' kqp''y \ kj '' f \ c' kf'' ky '' y \ g'' y \ g'' ky '' y \ g'' y$

Vcdng: <Ugngevgf 'I tcf g 516'Cf xgtug'Gxgpwl'Eqo rctlpi 'Hwn('Uwrrngo gpvgf 'kgtuwu'Pgxgt'Uwrrngo gpvgf 'Rcvlgpwl'p'\'j g''
CNKO VC'rnwl'Elurncvlp'\'cto * 'lpelf gpeg+

	Hwn('Uwrrngo gpwgf'Rcwlgpw	Pgxgt 'Uwrrngo gpvgf 'Rcvlgpw
Cf xgtug'Gxgpv * +	*P ? 38: +	*P ? 54+
P gwtqr gpkc li tcpwqe { vqr gpkc	45	5:
Vj tqo dqe{vqr gpkc	7	• •
Xqo kkpi	33	53
Hgdtkrg'pgwtqr gpkc	3	• •
Kohgeskqp'y kj 'I tcf g 516'pgwtqr gpkc	2	8
Fkettj ge	6	• •

C Tghgt 'vq'PEKEVE'ethsgthc'hqt'rcd'cpf'pqp/rcdqtcvqt{"xcnvgu'hqt"gcej 'i tcfg'qh'vqzhekx{ *Xgtukqp 402+0

 $\label{thm:continuous} Vj\ g'hqmqy\ kpi\ "cf\ xgtug"gxgpvu"y\ gtg'i\ tgcvgt"kp"vj\ g'hwm{ 'uwrrngo\ gpvgf 'i\ tqwr'eqo\ r\ ctgf 'vq'vj\ g'pgxgt'uwrrngo\ gpvgf 'i\ tqwr' j\ {r\ gt\ vgpukqp\ *33'\ ."5'\ +"ej\ guv'r\ ckp\ *: '\ ."8'\ +"cpf "vj\ tqo\ dqukulgo\ dqrkuo\ *8'\ ."5'\ +0$

Uwdr qr wrcykqpu

 $Pq'tgrgxcpv'gthgev'hqt'CNKO\ VC''uchgv' \ 'f\ wg''vq'i\ gpf\ gt''qt'tceg''y\ cu'lf\ gpvkhkgf\ ."gzegr\ v'cp'kpetgcugf\ 'kpekf\ gpeg''qh'tcuj\ 'lp''\ o\ gp\ *46'\ \ +"eqo\ r\ ctgf\ ''vq''y\ qo\ gp\ *38'\ \ +0$

Cf f kkqpcn'Erkpkecn'Vtkcnu'Gzr gtkgpeg

Cetquu'enkpkecn'vtkcnu.''ugr uku.'y j kej 'kp'uqo g'ecugu'y cu'hovon''qeewttgf 'kp''crrtqzko cvgn("3' "qh'rcvkgpvu0

804 Rquv/O ct ngvlpi 'Gzr gt lgpeg

Vj g'hqnqy kpi "cfxgtug'tgcevkqpu"j cxg"dggp'kfgpvkhkgf "fwtkpi "rquv'crrtqxcn'wug"qh'CNKO VC0Dgecwug"vj gug'tgcevkqpu"ctg" tgrqtvgf "xqnwpvctkn("htqo "c"rqrwcvkqp"qh'wpegtvckp"ukl g. "kv'ku'pqv'cny c{u'rquukdng"vq'tgnkcdn("guvko cvg'vj gkt'htgswgpe{"qt"guvcdnkuj "c" ecwucn'tgncvkqpuj kr "vq"ftwi "gzrquwtg0'

Vj gug'tgcevkqpu'j cxg''qeewttgf y kij 'CNKO VC''y j gp''wugf ''cu''c''ukpi ng/ci gpv''cpf 'kp''eqo dkpcvkqp''y gtcr kgu0

ô eqrkku

ô gfgoo

ô Tcf kcvkqp"tgecm"j cu"dggp"tgr qtvgf "kp"r cvkgpvu"y j q"j cxg"r tgxkqwun("

tgegkxgf 'tcf kqyj gtcr {0

ô kpygtuvkyken'r pgwo qpkyku

ô Dwnqwu'eqpf kkqpu. 'kpenwf kpi ''Uygxgpu/Iqj puqp''u{pf tqo g'cpf ''qzke''gr kf gto cn'pgetqn(uku0'Uqo g'ecugu'y gtg'hcvcn)

9 FTWI 'RPVGTCEVKQPU

908 Pap/Uvgt alf calCpvk/kphaco o cvat { 'Ft wi u *PUCkFu+

Cnji qwi j "kdwr tqhgp *622 o i "hqwt"vko gu"c"f c { +"ecp"f get gcug"vj g"engctcpeg"qhlr go gwt gz gf ."kwecp"dg"cf o kpknygt gf "y kj " CNKO VC"kp"r cvkgpvu"y kj "pqto cnl tgpcnl hwpevkqp"*et gcvkpkpg"engctcpeg" : 2 o Nlo kp+0P q"f qug"cf l wuvo gpv'qh"CNKO VC"ku"pggf gf "y kj " eqpeqo kxcpv"P UCKF u"kp"r cvkgpvu"y kj "pqto cnl tgpcnl hwpevkqp 0

Ecwkqp''uj qwf ''dg''wugf ''y j gp''cf o kpkuygtkpi 'P UCKF u''eqpewttgpvn(''y ksj ''CNKO VC''vq''r cvkgpvu'y ksj ''o kff ''vq''o qf gtcvg''tgpcn' kpuwhhekgpe{ '*etgcvkpkpg''engctcpeg'htqo ''67''vq''9; ''o Nlo kp+0P UCKF u''y ksj ''uj qtv''grko kpcvkqp''j cnh'nkxgu *g0 0'f kenqhgpce.''kpf qo gyj cekp+ uj qwf ''dg''cxqkf gf 'hqt''c'r gtkqf ''qh''4 f c{u''dghqtg.''yj g'f c{ ''qh ''cpf ''4 f c{u''hqnnqy kpi ''cf o kpkurtcvkqp''qh''CNKO VC'0

904 Pgrjtqvqzke'Ftwiu

CNKO VC'kı'r tko ctkı('gıko kpcvgf 'wpej cpi gf 'tgpcm('cu'c'tguwn'qh'i nqo gtwrct'hkntcvkqp''cpf 'wdwrct'ugetgvkqp0'Eqpeqo kcpv' cf o kpkntcvkqp'qh'pgr j tqvqzke'f twi u'eqwrf 'tguwn'kp'f grc{gf 'ergctcpeg'qh'CNKO VC0'Eqpeqo kcpv'cf o kpkntcvkqp'qh'uwduvcpegu'yj cv'ctg'' cnq'wdwrctn('ugetgvgf '*g0 0'r tqdgpgekf +'eqwrf 'r qvgpvkcm('tguwn'kp'f grc{gf 'ergctcpeg''qh'CNKO VC0

:

: WUG'HP'URGEHHE'RQRWNCVKQPU

: 03 Rt gi pcpe{

/ Rtgi pcpe{ "Ecvgi qt{ F"

Dcugf "qp"ku"o gej cpkw "qh"cekqp. "CNKO VC"ecp"ecwug"hgvcn"j cto "y j gp"cf o kpknygtgf "\q"c"r tgi pcpv'y qo cp0Vj gtg"ctg"pq" cf gs wcy"cpf "y gmleqpvtqmgf "twwf kgu"qh"cNKO VC"kp"r tgi pcpv'y qo gp0Rgo gvtgzgf "y cu"go dt {qvqzke."hgvqzke."cpf "vgtcvqi gpke"kp" o keg0Kp"o keg. "tgr gcvgf "kpvtcr gtkqpgcn"f qugu"qh"r go gvtgzgf "y j gp"i kxgp"f wtkpi "qti cpqi gpguku"ecwugf "hgvcn'o cnhqto cvkqpu"*kpeqo r ngvg" quukhkecvkqp"qh"cmu"cpf "tumvni'dqpg="cdqw'31:55tf" yj g"tgeqo o gpf gf "kpvtcxgpqwu"j wo cp"f qug"qp"c"o i lo 4 dcuku+"cpf "engh"r cncvg" *3 155tf "yj g"tgeqo o gpf gf "kpvtcxgpqwu"j wo cp"f qug"qp"c"o i lo 4 dcuku+0Go dt {qvqzkek/"y cu"ej ctcevgtk/ gf "d{ "kpetgcugf "go dt {q/hgvcn" f gcyj u"cpf "tgf wegf "hxvgt"uk/ gu0KiCNKO VC"ku"wugf "f wtkpi "r tgi pcpe{."qt"kh'y g"r cvkgpv'dgeqo gu"r tgi pcpv'y j kng"vcmkpi "yj ku"f twi ."yj g" r cvkgpv'bi qwrf "dg"cr r tkugf "qh'yj g"r qvgpvkcn"j c| ctf "vq"yj g"hgwu0YY qo gp"qh"ej knf dgctkpi "r qvgpvkcn"uj qwrf "dg"cf xkugf "vq"vug"ghtgevkxg" eqpvtcegr vkxg"o gcuwtgu"vq"r tgxgpv'r tgi pcpe{ "f wtkpi "yj g"tvgcvo gpv'y kyj "CNKO VC0

: 05 Pwtukpi 'O qvj gtu

K'ku'pqv'mpqy p "y j gy gt 'CNKO VC"qt 'ku'o gvcdqrkgu'ctg"gzetgvgf 'kp'j wo cp"o km0Dgecwug"o cp{ 'ftwi u'ctg"gzetgvgf 'kp'j wo cp"o km1cpf 'dgecwug'qh'y g'r qvgpvkcrihqt 'ugtkqwu'cf xgtug'tgcevkqpu'kp'pwtukpi 'kphcpwu'htqo 'CNKO VC.'c'f gekukqp'uj qwrf 'dg'o cf g'vq'f kueqpvkpwg'pwtukpi ''qt'f kueqpvkpwg'y g'ftwi.'vcmkpi 'kpvq'ceeqwpv'y g'ko r qtvcpeg'qh'y g'ftwi 'hqt'y g'o qy gt0

: 06 Rgf kcvt ke'Wig

Girlece { qh'CNKO VC 'kp'r gf kevtke'r cvkgpwi'j cu'pqv'dggp'f go qpuvtevgf 0CNKO VC 'y cu'cf o kpknygtgf 'cu'cp'kpvtexgpqwu'kphwukqp'' qxgt''32'o kpwgu'qp'F c { '3'qh'c'43"f c { 'e {eng''q'r gf kevtke r cvkgpwi'y kyj 't gewttgpv'uqntf 'wo qtu'kp'c'Rj cug''3'uwf { '*54"r cvkgpwu+cpf 'c'' Rj cug''4'uwf { '*94"r cvkgpwu+0Cml'r cvkgpwi't gegkxgf 'r tgytgcvo gpv'y kyj 'xkco kp'D $_{34}$ cpf 'hqnke'cekf 'uwr r ngo gpvcvkqp'cpf 'f gzco gyj cuqpg0' Vj g'f qug''guecncvkqp'kp'yj g'Rj cug''3'uwf { 'f gygto kpgf 'yj g'o czko wo 'vqngtcvgf 'f qug'y cu'3; 32"o i lo 'd cpf 'yj ku'f qug''*qt'82"o i lmi 'hqt'' r cvkgpvu'>34"o qpyj u'qnf +'y cu'gxcnwcygf 'kp'yj g'Rj cug''4'uwf { 'qh'r cvkgpvu y kyj 't gncr ugf 'qt't tghtcevqt { 'quvgqucteqo c.'Gy kpi '' ucteqo c lr gtkr j gtcn'RP GV.'tj cdf qo { qucteqo c.'pgwtqdncuvqo c.'gr gpf { o qo c.'o gf wnqdncuvqo c luwr tcvgpvqtkcn'RP GV.'qt'pqp/dtckpuvgo 'J ki j '' t cf g'i rkqo c0P q't gur qpugu'y gt g'qdugtxgf ''co qpi ''yj g'94'r cvkgpvu'kp'yj ku'Rj cug'4 vkcn'DVj g'o quv'eqo o qp''vqzkekkgu'' tgr qtvgf ''y gtg''j go cvqni kecn'*ipwnqr gpkc.''pgwtqr gpkc li tcpwnqe { vqr gpkc.''cpgo kc.''yj tqo dqe { vqr gpkc.''cpf ''n{ o r j qr gpkc+''lkxgt 'hwpevkqp'' cdpqto cnkkgu''*kpetgcugf ''CNVICUV+'hcvki wg.''cpf ''pcwugc0'

Vj g'ukpi ng'f qug'r j cto ceqnkpgvkeu'qh'CNKO VC''cf o kpknygtgf 'kp'f qugu'tcpi kpi 'htqo ''622''vq''46: 2''o i lo 4 y gtg'gxcnwcygf 'kp''j g'' Rj cug''3''vkcnlkp''44'r cvkgpvu'*35''o cngu''cpf ''; 'hgo cngu+''ci gf ''6''vq 3: ''{ gctu''*cxgtci g''ci g 34''{ gctu+0Rgo gxtgzgf ''gzr quwtg *CWE cpf 'E_o cz+cr gctgf ''vq''kpetgcug''r tqr qtvkqpcm{ 'y kj f qug0'Vj g''cxgtci g''r go gxtgzgf ''engctcpeg'*4652''Nlj lo 4 +cpf ''j cnh'nkg'*465''j qwtu+kp''r gf kcvtke'' r cvkgpvu'y gtg eqo r ctcdng''vq''xcnwgu'tgr qtvgf kp''cf wnu0

:07 I gtk:vtke'Wug

CNKO VC'ku'npqy p''q''dg''uwduvcpvkcm("gzetgygf "d{ ''j g''nkf pg{ ."cpf ''j g''t kun'qh'cf xgtug''t gcevkqpu''q''j ku'f twi ''o c{ ''dg''i tgcvgt 'kp'' r cvkgpvu''y kj 'ko r cktgf 'tgpcn'hwpevkqp0'Dgecwug''grf gtn('r cvkgpvu''ctg''o qtg''nkngn(''vq''j cxg''f getgcugf 'tgpcn'hwpevkqp."ectg''uj qwrf dg''vcngp'' kp''f qug''ugrgevkqp0'Tgpcn'hwpevkqp''o qpkvqtkpi 'ku'tgeqo o gpf gf 'y kj ''cf o kpkntcvkqp''qh''CNKO VC0P q''f qug''tgf wevkqpu''qy' gt''j cp''j qug'' tgeqo o gpf gf 'hqt''cm'r cvkgpvu''ctg''pgeguuct{ 'hqt'r cvkgpvu''87 {gctu''qh''ci g''qt''qnf gt'' 0

Kp"yj g"kpkkcn'vtgevo gpv'pqp/uo endegn'hwpi "ecpegt"enkplecn'vtken"590" qh'r evkgpwi'vtgevgf "y kyj "CNKO VC"r nwu'ekur nevkp"y gtg" 87 {getu'epf "I tef g 516"pgwytqr gpke"y cu'i tgevgt "cu'eqo r etgf "vq"r evkgpwi'>87 {getu'*3; 0, ' xgtuwu'3404' \pm 0"Hqt"r evkgpwi'>87 {getu."yj g" J T"hqt"qxgtem'uwtxkxen'y cu'20; 8"*, 7' EK20 5. 3082 \pm 1"cpf "hqt"r evkgpwi' 87 {getu'yj g"J T'y cu'20; '*, 7' EK206. 3028 \pm 1"kp"yj g'hpvgpv'vq" vtgev'r qr wrevkqp0

Kp"'y g"o ckpvgpcpeg"pqp/uo cmlegm'hwpi "ecpegt"vkcn'5505" "qh'r cvkgpvu'vtgcvgf "y ksj "CNKO VC" y gtg" 87 {gctu"cpf "pq"f khhgtgpegu" y gtg"uggp"kp"I tef g 5 16"cf xgtug"tgcevkqpu"cu"eqo r ctgf "vq"r cvkgpvu">87 {gctu0"Hqt"r cvkgpvu"} qvtgcv"r qr vvcvkqp0

Kp"'y g"pqp/uo cm'egm'hwpi "ecpegt"\tkch'chygt"r tkqt"ej go qvj gtcr {."4; @' r cvkgpvu'\tgcvgf "y kyj "CNKO VC"y gtg" 87 {gctu'cpf " I tcf g 5 16"j {r gtvgpukqp"y cu'i tgcvgt"cu'eqo r ctgf "vq"r cvkgpvu'>87 {gctuOHqt"r cvkgpvu'>87 {gctu."yj g"J T"hqt"qxgtcm'hwtxkxcn'y cu'20, 7" *; 7' EK'2098. 308; +"cpf "hqt"r cvkgpvu" 87 {gctu'yj g"J T"y cu'3087"*; 7' EK'209; . 308: +"kp"yj g"kpvgpv'vq"\tgcv'r qr wcvkqp0

Vj g'o guqvj grlqo c''tkrillpenaf gf "580" r cvlgpwi'tgevgf "y kj "CNKO VC''r nwu'ekur nevkp "y cv'y gtg" 87 {gctu."cpf "I tcf g 516" hevki wg. "rgwnqr gpke. "pgwtqr gpke. "cpf "vj tqo dqe { vqr gpke "y gtg'i tgevgt "cu'eqo r ctgf "vq'r cvlgpwi'>87 {gctu."bj g" J T''hqt''qxgtcm'uwxkxcn'y cu'2093, 7' EK'205. 20, 8+"cpf "hqt'r cvlgpwi" 87 {gctu."yj g"J T''y cu'207", 7' EK'207; . 3044+"kp "yj g"kpvgpv" vq''tgev'r qr wrevlqp0

: 08 Revleput'y kyj 'J grevle'Ko rekto gpv

Vj gtg'y cu" 51 O " wp

Kp" i g'lpkkcn't gcvo gpv'pqp/uo cm'egm'hwpi "ecpegt "t.kcn" 92' "qh'r c.kgpvu' y gt g"o cngu'cpf "52' hgo cngu'0 Hqt "o cngu'y g" J T'hqt "qxgtcm'uwxxxcn'y cu" 20, 9'*, 7' EK'20 7. 3082+"cpf 'hqt 'hgo cngu'y g" J T'y cu'20 8'*, 7' EK'202. 3082+"kp" y g'lpvgpv'y q't gcv'r qr wrc.lqp0

Kp''y g'o ckpvgpcpeg''pqp/uo cmlegmhwpi "ecpegt''tkcn''95' "qhi'r cvkgpwi'y gtg'o crgu'cpf "49' hgo crgu'0Hqt''o crgu'y g''J T''hqt'' qxgtcmlwxxxcn'y cu''209: "*; 7' EK'2085. 20; 8+"cpf ''hqt''hgo crgu'y g''J T''y cu''20 5'*; 7' EK'2078. 3043+'kp''y g''kpgpv''q''tgcv'r qr wrcvkqp0

Kp"\'i g"pqp/uo cmlegm'hwpi "ecpegt"\tlen'chwgt"r tlqt"ej go qyi gtcr {.'94' "qh'r cwlgpwu'y gtg"o cngu'cpf "4:' hgo cngu0Hqt"o cngu'\'y g" J T"hqt"qxgtcm'lwxtxlxcn'y cu'20 7"*, 7' EK208. 30\; +"cpf "hqt"hgo cngu'\'y g"J T"y cu'30\t: "*, 7' EK208. 30\; 3+"lp"\'y g"lpvgpv\'\q"\tgcv" r qr wrc\lqp0

Kp"ij g"o guqvj grlqo c"\tlen": 4' "qhh'r exlegpvu'y gtg"o ergu"cpf "3: ' hgo ergu0Hqt"o ergu"ij g"J T"hqt"qxgterniuwtxkxeriy eu'20 7" *, 7' EK'2088. 30; +"cpf "hqt"hgo ergu"ij g"J T"y eu'206: '*, 7' EK'2049. 20 7+"kp"ij g"kpygpv"iq"\tgev"r qr wrexlqp0

:0, Tceg

Kp''y g'lpkkcn'\tgcvo gpv'pqp/uo cm'egm'nwpi "ecpegt'\tkcn'9: ' "qh'r c\kgp\u''y gtg'Ecwecukcpu."35' GcuvlUqwj gcuv'Cukcpu."cpf"; ' qyj gtu0Hqt'Ecwecukcpu."yj g'J T'hqt"qxgtcm'uwtxkxcn'y cu'20 4'*; 7' EK20 4. 3026+.'hqt"GcuvlUqwj gcuv'Cukcpu''yj g'J T'y cu'20 8" *; 7' EK2083. 3043+."cpf 'hqt"qyj gtu'yj g'J T'y cu'3046'*; 7' EK20 6. 30 6+!kp''yj g'kp\gp\v'\q''\tgcv'r qr wrc\kqp0

Kp"yj g"o ckpvgpcpeg"pqp/uo cmlegmlinupi "ecpegt"vtkcn"87' "qhlir cvkgpvu"y gt g"Ecwecukcpu."45' Gcuv'Cukcp."cpf "34' qvj gtu0Hqt" Ecwecukcpu"yj g"J T"hqt"qxgtcmluvtxkxcnly cu"2099"*; 7' EK2084. 20 9+"hqt"Gcuv'Cukcpu"y cu"3027"*; 7' EK2092. 307; +"cpf "hqt"qvj gtu" yj g"J T"y cu"2068"*; 7' EK2048. 209; +"kp"vj g"kpvgpv"vq"vtgcv"r qr vrcvkqp0

Kp''y g'pqp/uo cm'egm'hwpi 'ecpegt''tkch'chygt'r tkqt''ej go qyi gtcr {.'93' "qh'r cvkgpvu'y gtg'Ecwecukcpu'cpf "4; 'qyi gtu0Hqt" Ecwecukcpu'y g'J T'hqt''qxgtcm'uwtxkxcn'y cu''20,3'*; 7' EK'2095. 3067+"cpf 'hqt''qyi gtu'y g'J T'y cu''3049'*; 7' EK'20 9. 30 9+"kp"y g'' kpygpy'vq"ttgcv'r qr wrcvkqp0

Kp''y g'o guqyi grkqo c''tkcn'', 4' "qh'r cvkgpvu'y gtg'Ecwecukcpu'cpf'': 'qyi gtu0Hqt'Ecwecukcpu.''y g'J T'hqt''qxgtcm'uwtxkxcn'y cu'' 2099'*, 7' EK2083. 20, 9+'cpf 'hqt''qyi gtu'yi g'J T'y cu''20 8'*, 7' EK205; . 30, 2+'kp''yi g'kpygpv'\q'\tgcv'r qr wrcvkqp0

32 QXGTFQUCI G

Vj gtg'j cxg'dggp'hgy 'ecugu'qh'CNKO VC''qxgtf qug0Tgr qtvgf '\qzkekkgu'kpenvf gf 'pgwtqr gpkc.''cpgo kc.''vj tqo dqe{vqr gpkc.'' o wequkku "cpf 'tcuj 0Cpvkekr cvgf 'eqo r necvkqpu'qh'qxgtf qug'kpenvf g'dqpg'o cttqy 'uwr r tguukqp''cu'o cpkhguvgf 'd{ 'pgwtqr gpkc.'' vj tqo dqe{vqr gpkc.''cpf 'cpgo kc0Kp''cf f kkqp.'kphgevkqp'y kyj ''qt'y kyj qwv'hgxgt.''f kcttj gc.''cpf 'o wequkkk

c'nguugt'gz vgp v.'lp'pqto cn'\kuwgu0Rqn(i nwco cvgf 'o gvcdqrksgu''ctg''y qwi j v'\q''j cxg''cp''kpetgcugf 'kpvtcegmwct''j cnl/nklg'tguwnkpi 'lp'' r tqrqpi gf 'f twi ''cevkqp''kp''o cnki pcpv'egmu0

3404 Rj cto ceqf { pco leu

Rtgenkplecn'uwf kgu'j cxg'uj qy p''j cv'r go gxtgzgf 'kpj kdku''j g'kp xkstq'i tqy yj ''qh''o guqyj gnkqo c''egm'nkpgu *O UVQ/433J ."
PEKJ 4274-0'Uwf kgu'y kj ''j g''O UVQ/433J ''o guqyj gnkqo c''egm'nkpg''uj qy gf ''u{pgti kurke ''ghhgewi'y j gp''r go gxtgzgf y cu''eqo dkpgf '' eqpewttgpvn(''y kj ''ekur ncvkp0

 $Cduqnwg"pgwtqrjk"leqwpuu "CPE+lqnqykpi"ukpi "ukpi ng/ci gpv'cfo kpkntcvkqp"qh'CNKO VC"vq"r cvkgpu"pqv'tgegkxkpi "hqrke"cekf "cpf" xkxco kp D_{34} uwr r ngo gpvcvkqp"y gtg"ej ctcevgtk gf "wukpi "r qr wrcvkqp"r j cto ceqf {pco ke"cpcn(ugu0Ugxgtkx("qhl"j go cvqnqi ke"vqzkekx{."cu" o gcuwtgf "d{ "yj g"f gr yj "qhl"y g"CPE "pcf kt."eqttgrcvgu"y kyj "yj g"u{uvgo ke"gzr quwtg."qt"ctgc"wpf gt"yj g"ewtxg "CWE+lqhl"r go gvtgzgf 0'Ki"y cu" cnuq"qdugtxgf "yj cv"nyy gt"CPE "pcf ktu"qeewttgf "kp"r cvkgpwu"y kyj "grgxcvgf "dcugrhpg"e{uvcyj kqpkpg"qt"j qo qe{uvgkpg"eqpegpvtcvkqpu0Vj g" nxxgnu"qh"yj gug'uwduvcpegu"ecp"dg"tgf wegf "d{ "hqrke"cekf" "cpf" xkxco kp D_{34} uwr r ngo gpvcvkqp0Vj gtg"ku"pq"ewo wrcvkxg"ghlgev"qh"r go gvtgzgf" gzr quwtg"qp"CPE "pcf kt"qxgt"o wnkr ng"vtgcvo gpv'e{engu0}$

Vko g''\q''CPE''pcf kt''y kj ''r go g\tgzgf ''u\{u\tgo ke''gzr qu\tg *CWE+'\txctkgf ''dg\ty ggp'': \taq''; \& fc\{u''q\txgt''c''tcpi g''qh''gzr qu\txgu''\tq '' 5: \& \taq''5380 \to ei \undersign t lo NOTg\txtp'\tq''dcugr\tyg''CPE''qee\txtff ''604 \taq''907 fc\{u''c\txtpt''\tyj g''\txtpc g'\txtpt g''\txtpt g''\txtpt

3405 Rj cto ceqmpgvleu

Cduqt r vkqp

Vj g"r j cto ceqnhpgvleu"qhl'CNIO VC"cf o lphrugtgf "cu"c"uhpi ng/ci gpv'hp"f qugu"tcpi kpi "htqo "204 vq": 5: o i lo 4 kphrugf "qxgt"c" 32/o kpwg"r gtkqf "j cxg"dggp"gxcnwcygf "kp"648 ecpegt"r cvkgpvu"y kyj "c"xctkgv{ "qh"uqrkf "wo qtu0Rgo gxtgzgf "vqvcn'u{ uvgo ke" gzr quwtg *CWE+"cpf "o czko wo "r rcuo c"eqpegpvtcvkqp * $E_{o\,cz}$ +"kpetgcug"r tqr qtvkqpcm{ "y kyj "f qug0"Vj g"r j cto ceqnhpgvleu"qh'i'r go gxtgzgf "f q"pqv'ej cpi g"qxgt"o wnkr ng"vtgcvo gpv'e{ ergu0}

F kmt kd wwkap

 $Rgo\ gvtgzgf\ ''j\ cu'c'uvgcf\ \{/uvcvg'xqnwo\ g''qh'f\ knvtkdwkqp''qh''380B\ rkvgtu0Tkp\ xkstq''uwwf\ kgu''kpf\ kecvg''vj\ cv'r\ go\ gvtgzgf\ 'ku''crrtqzko\ cvgn('' : 3' ''dqwpf''vq''r\ rcuo\ c''r\ tqvgkpu0Dkpf\ kpi ''ku''pqv'chhgevgf''d\ 'f\ gi\ tgg''qh'tgpcn'ko\ rckto\ gpv0$

O gycdqrkto 'cpf 'Gzetgykqp

Rgo gvigzgf 'ku''pqv'o gvcdqrk gf 'vq'cp''cr r tgekcdrg 'gz vgpv'cpf 'ku''r tko ctkn('grko kpcvgf 'kp''y g''wtkpg. 'y ky '92' vq'', 2' qh'y g'f qug'' tgeqxgtgf 'wpej cpi gf 'y ky kp''y g'hktuv46 j qwtu'hqrnqy kpi 'cf o kpkwtcvkqp0'Vj g'ergctcpeg'f getgcugu. 'cpf 'gzr quwtg *CWE+'kpetgcugu. 'cu'' tgpcrhwpevkqp'f getgcugu0'Vj g''vqvcrhu{uvgo ke''ergctcpeg'qh'r go gvtgzgf 'ku'', 30 o Nlo kp''cpf 'y g''grko kpcvkqp''j crh'nklg'qh'r go gvtgzgf 'ku'' 507 j qwtu'kp'r cvkgpvu'y ky ''pqto crh'tgpcrhwpevkqp *etgcvkpkpg''ergctcpeg'qh'', 2 o Nlo kp+0'

 $\label{thm:constraint} Vj\ g'rj\ cto\ ceqnhpgwleu'qh'r\ go\ gwtgzgf\ 'hp''ur\ gelcn'r\ qr\ wrcwlqpu'y\ gtg''gzco\ lpgf\ 'hp''cdqw'622\ r\ cwlgpwu'hp''eqpwtqngf\ ''cpf\ ''ulpi\ ng''cto\ ''\ uwwf\ lgu0$

 $uwwf kgu'kpf kecvg''vj cv'r go gwtgzgf ku c''uwduwtcvg''qh''QCV5 *'qti cpke''cpkqp''wtcpur qtvgt''5+''c''wtcpur qtvgt''vj cv'o c{''r rc{''c''}tqrg''kp''cewkxg''ugetgwkqp''qh'r go gwtgzgf 0$

Głłgev'qh'Ci g

P q"ghhgev'qh'ci g"qp"\j g"r j cto ceqnhpg\keu"qh'r go g\tgzgf "y cu"qdugtxgf "qxgt"c"tcpi g"qh'48 \q": 2 {gctu0

Głłgev'qh'I gpf gt

Vj g'rjcto ceqmlogyleu'qh'r go gytgzgf 'y gtg'pqv'fkhgtgpv'lop'o cng'cpf 'hgo cng'r cylgpyu0

Ghgev'qh'T ceg

 $Vj\ g'rj\ cto\ ceqnhpgvleu'qh'r\ go\ gvtgzgf\ 'y\ gtg'ulo\ kmt'lp'Ecweculcpu'cpf\ 'r\ cvlgpvu'qh'Cht lecp'f\ guegpv0'lpuwhhelgpvf\ cvc''ctg''\ cxckmcdng''q''eqo\ r\ ctg''rj\ cto\ ceqnhpgvleu'hqt''qvj\ gt''gvj\ ple''i\ tqwr\ u0$

Głłgev'qh'J gr cvle'Kpuwlflelgpe{

Vj gtg'y cu'pq'ghhgev'qh'gngxcvgf 'CUV.'CNV.'qt'vqvcn'dkrkt wdkp''qp''yj g'r j cto ceqnkpgvkeu''qh'r go gvtgzgf 0J qy gxgt.''uwwf kgu''qh'' j gr cvkecm('ko'r cktgf 'r cvkgpvu''j cxg''pqv''dggp''eqpf wevgf ''

Ghgev'qh'TgpcnKpuwhhelgpe{

Rj cto ceqmbgvke"cpcn(ugu"qhi'r go gytgzgf "hpenwf gf "349 r cykgpvu"y kj "tgf wegf "tgpcrihwpevkqp0Rrcuo c"ergctcpeg"qhi'r go gytgzgf "f getgcugu"cu"tgpcrihwpevkqp"f getgcugu. 'y kj "c"tguwncpv'kpetgcug"kp"u{ uygo ke"gzr quwtg0Rcykgpvu"y kj "etgcykpkpg"ergctcpegu"qhi'67.'72.'cpf" : 2 o Nio kp"j cf '87' .'76' .'cpf "35' kpetgcugu."tgur gevkxgn("kp"r go gytgzgf "vqvcn'u{ uygo ke"gzr quwtg *CWE+"eqo r ctgf "vq"r cykgpvu"y kj "etgcykpkpg"ergctcpeg"qh'322 o Nio kp" 0

Ghgev'qh'Vj kt f 'Ur ceg'Hnwlf

Vj gʻghtgevʻqhʻy kt fʻur cegʻhnkt .'uwej 'cu'r rgutcnʻghtwukqp'cpf 'cuekgu 'qp'CNKO VC'ku'pqvʻhxnn('f ghkpgf 0C'uwxf {'qh'CNKO VC'722" o i lo 4 y cu'r gthqto gf 'kp'53'uqnkf 'wo qt'r cvkgpvu'y kj 'uvcdng'y kt f'ur cegʻhnkf '*Cni'dw'4'qh'y g'53'r cvkgpvu'kpenxf gf 'kp'uwxf {'j cf 'o ktf' qt'o qf gtcvg'co qwpvu'qh'y ktf'ur ceg'hnkf +0O qf gtcvg'r ngwtcnightwukqp'y cu'f ghkpgf 'kp'y g'uvxf {'cu'nguu'y cp'3 15'y g'y c{ 'wr 'qp'qpg'ukf g'' y kj 'qduewtkpi 'qh'y g'gpvktg'j go kf kcr j tci o 0O qf gtcvg'cuekgu'y cu'f ghkpgf 'cu'y cv'f gvgevcdng'qp'r j {ukccn'gzco 0Vj g'r go gvtgzgf'' r ncuo c'eqpegpvtcvkqpu'kp'y gug'r cvkgpw'y gtg'eqo r ctcdng'vq'y qug'qdugtxgf 'kp'r tgxkqwu'enkplecn'vtkcnu'kp r cvkgpw'y kj qww'y ktf 'ur ceg' hnxkf 'eqnrgevkqpu0Vj wu.'f tckpci g'qh'o ktf 'qt''o qf gtcvg'y ktf 'ur ceg'hnxkf 'eqnrgevkqp'r tkqt''q 'CNKO VC''vtgcvo gpv'vj qwrf 'dg''eqpukf gtgf .''dw'' ku'r tqdcdn('pqv'pgeguuct{0Vj g'g'ghtgev'qh'ugxgtg'y ktf 'ur ceg'hnxkf 'qp''r j cto ceqnkpgvkeu'ku'pqv'npqy p0

Głłgev'qlikdwrt qlgp

 $\label{lem:klwr} \textbf{Klwr}\ tqhgp"f\ qugu"qh'622\ o\ i\ 'hqwt"\ 'ko\ gu"c"f\ c{'tgf\ weg"r\ go\ gwtgzgf\ \emptyset u"engctcpeg"d{''cdqw'42'}\ \ ''cpf\ 'lpetgcug''CWE''d{''42'}\ +'lp''\ r\ cwlgpwi'y\ kj\ ''pqto\ cn'tgpcn'hwpevlqp0'Vj\ g"ghhgev'qh'i\ tgcvgt"f\ qugu"qh'ldwr\ tqhgp"qp"r\ go\ gwtgzgf\ ''r\ j\ cto\ ceqnhpgwleu'ku'wpnpqy\ p''$

Głłgev'qli'Cur kt kp

Cur ktkp. "cf o kpknygtgf kp"ngy "vq"o qf gtcvg"f qugu *547 o i "gxgt { '8 j qwtu+. "f qgu"pqv"chhgev"yj g"r j cto ceqmkpgvkeu"qh"r go gwtgzgf 0' Vj g"ghhgev"qh"i tgcvgt "f qugu"qh"cur ktkp"qp"r go gwtgzgf "r j cto ceqmkpgvkeu"ku "wpmpqy p0

Głłgev'qh'Ekur nc vkp

 $E kur nc kp'f qgu'pqv'chhgev'vj g'r j cto ceqnkpgvkeu'qh'r go gvtgzgf "cpf "vj g'r j cto ceqnkpgvkeu'qh'vqvcn'r nc kpwo "ctg'wpcnvgtgf "d{" r go gvtgzgf 0}$

Głłgev'qh'Xksco kpu

 $\label{eq:controller} Eqcfo kpkntckqp"qh"qtcn"hqnke"cekf "qt" kpvtco www.ct"xksco kp D_{34} f qgu"pqv"ch"gev"yj g"r j cto ceqnkpgvkeu"qh"r go gvtgzgf 0 \\ \textbf{Ft wi u'O gvcdqn"k gf 'dl 'E{ wqej t qo g'R672'Gp| {o gu}}$

Tguwnu'htqo 'kp xkstq'uwsf kgu'y kij 'j wo cp'hkxgt'o ketquqo gu'r tgf kev'\j cv'r go gstgzgf 'y qwrf 'pqv'ecwug'enkpkecm\{ 'uki pkhkecpv' kpj kdkkqp'qh'o gvcdqrke'engctcpeg''qh'f twi u'o gvcdqrk| gf 'd\{ 'E[R5C.'E[R4F 8.'E[R4E; .'cpf 'E[R3C40

35 PQPENIPIECN'VQZIEQNQI [

3508 Ectelpqi gpguku'O wci gpguku'Ko rckto gpv'qh'Hgtvkdw{

 $P\ q'''ectekpqi\ gpkek{'''uwf\ kgu''j\ cxg''dggp''eqpf\ wevgf\ ''y\ kj\ ''r\ go\ gxtgzgf\ 0Rgo\ gxtgzgf\ ''y\ cu''ercuvqi\ gpke''kp''j\ g''kp\ xkxq''o\ ketqpwergwu'' cuuc{''kp''o\ qwug''dqpg''o\ cttqy\ ''dw''y\ cu''pqv'o\ wci\ gpke''kp''o\ wnkr\ ng''kp\ xkxtq'\guvu\ *Co\ gu''cuuc{.''EJ\ Q\ egm''cuuc{+0}Rgo\ gxtgzgf\ ''cf\ o\ kpknygtgf'' cv'k0x0f\ qugu''qh''208\ o\ i\ lm'\ lf\ c{''qt''}\ tgcvgt''vq''o\ crg''o\ keg\ *cdqw''3\ 13888''j\ g''tgeqo\ o\ gpf\ gf\ ''j\ wo\ cp''f\ qug''qp''c''o\ i\ lo\ ^4\ dcuku+'tguwngf\ ''kp'' tgf\ wegf\ ''lytvkrk{\}.''j\ {r\ qur\ gto\ kc.''cpf\ '\guvkewrct''cxtqrj\ {0}}$

36 ENIP IE CN'UVWF IGU

360B Pqp/Uo cmiEgmiNwpi 'Ecpegt '*PUENE+'/ Eqo dlipcvlqp'y kij 'Ekir icvlp

C'o wnk/egpvgt. 'tcpf qo k gf .'qr gp/rcdgrluwf { 'kp'3947 ej go qpckxg'r cvkgpu'y kj "Uvci g kkkl lKX'P UENE'y cu'eqpf weyf "\q" eqo r ctg'\j g'\qxgtcm'\unxkxcrih\nny kpi "\tgcvo gpv\y kj "CNKO VC 'kp''eqo dkpc\kqp'y kj "ekur rc\kp *CE+\xgtuwu'i go ekcdkpg'\kp" eqo dkpc\kqp'y kj "ekur rc\kp *I E+0CNKO VC''y cu''cf o kpknytgf 'kp\tcxgpq\unn('qxgt''32 o kp\ungu''cv'c'\f qug'\qh'722 o i lo 4 y kj "ekur rc\kp" cf o kpknytgf 'kp\tcxgpq\unn('c\v'c'\f qug'\qh'347 c { 'e {erg0I go ekcdkpg'y cu'' cf o kpknytgf 'cv'c'\f qug'\qh'3472 o i lo 4 ch\yt' c\\c\v'c\f o kpknytgf 'cv'c'\f qug'\qh'3472 o i lo 4 ch\yt' c\\c\v'c\f o kpknytgf 'kp\tcxgpq\unn('cv'c'\f qug'\qh'3472 o i lo 4 ch\yt' c'\c\v'c\f o kpknytgf 'kp\tcxgpq\unn('cv'c'\f qug'\qh'3472 o i lo 4 ch\yt' c'\c\v'c\f o kpknytgf 'kp\tcxgpq\unn('cv'c'\f qug'\qh'3472 o i lo 4 ch\yt' c'\c\v'c\f o kpknytgf 'kp\tcxgpq\unn('cv'c'\f qug'\qh'377 o i lo 4 ch\yt' c'\q\v'c\\q\v'

Vcdng; < Hktuv/Nkpg'Vjgtcr{ < Uwo o ct{'qh/Rcvkgpv'Ejctcevgtku/keu'kp'Uwvf{'qh/PUENE''

Daylonyllai at acyntlyrla	CNKO VC't nw'Ekr nevlp *CE+	I go elscdlpg'rmu'Elurncslp *I E-
Rcykgpy'ej ctcevgtkurke	*P?:84+	*P?:85+
Cig'*{tu⊦	·	
""O gf kcp"tcpi g+	8305'*4: 0 /: 504+	8302'*4806/9;06+
I gpf gt		
""O crg IHgo crg	9204' 14; 0 '	9203' 14; 0; '
Qt li lp		
""Ecveculop	88; '*99 (8' +	8: 2'*9: 0 ' +
""J kur cpke	49'™508' +	45'' ¾ 4 ⊕ ' +
""Cukep	368'*380,' +	363'*3805' ⊣
""Chtlecp'f guegpv	3: '№405' +	3: '*403' +
Uvci g'ċv'Gpvt {		
""KKG 1KX	450 ' 19804'	4605' 19709'
J kwqrqi {	·	
""P qpus wco qwu'P UENE°	83: '*9309' +	856'*9507' +
""""Cf gpqectekpqo c	658' ¹ ×72 0 8' +	633'*6908' +
""""Ncti g'egn	98'*∴ 0 ' +	99'*: 0 ' +
""""Qyj gt ^d	328'*3405' +	368'*380,' +
""Us wco qwu	466'*4: ७ ' +	44; '*4807' +
GEQI 'RU ^{e.f}	·	
""23	5706' 18608'	5708' 18605'
Uo qnkpi 'J kwqt { ^g		
""Gxgt lpgxgt 'uo qngt	: 505' 1380, '	: 50 ' 13805'

 $^{^{\}rm c}$ Kpenwf gu'cf gpqectekpqo c.'ircti g'egm'cpf 'qvj gt'j kuvqnqi kgu gzegr v'vj qug'y k
j 'us wco qwu'egm'v{ r $\rm g0}$

^d Vj g'uwdi tqwr ''qh'lōqvj gtö'tgr tgugpwi'r cwlgpwi'y kaj ''c'r tko ct { ''f kci pquku''qh'P UENE''y j qug'f kugcug'f kf ''pqv'ergctn(''s wcrkh(''cu'' cf gpqectekpqo c.''us wco qwu''egm'ectekpqo c.''qt''ncti g''egm'ectekpqo c0

^e Gcuygtp'Eqqr gtcvkxg'Qpeqmi { I tqwr 'Rgthqto cpeg'Ucwu0

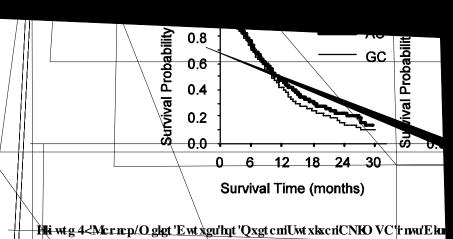
GEQI RU'y cu'pqv'tgr qtvgf 'hqt 'cm'tcpf qo k| gf 'r cvkgpvu0Rgtegpvci gu'ctg'tgr tgugpvcvkxg''qh'P ?: 83'hqt 'vj g'CNKO VC''r nxu'ekur ncvkp'' cto .''cpf 'P ?: 83'hqt 'vj g'i go ekscdkpg''r nxu'ekur ncvkp''cto 0

^g Uo qmkpi "j kuvqt { "y cu''eqmgevgf "hqt": : ' "qh'tcpf qo kļ gf "r cvkgpvu'*P?979"hqt"'y g''CNKO VC"r nxu''ekur ncvkp"cto "cpf "P?97; "hqt"'y g'' i go ekscdkpg"r nxu''ekur ncvkp"cto +0

Rckgpui'tgegkxgf 'c'o gf kcp'qhi'7 e{ergu'qhi'tgcvo gpv'kp'dqvj 'uwwf { "cto u0Rckgpvu'tgcvgf 'y ksj "CNKO VC'r nwu'ekur nckp'tgegkxgf "c" tgrcvkxg'f qug'kpvgpukk{ "qh'; 60 ' "qh'vj g'r tqvqeqn'ur gekhkgf 'CNKO VC'f qug'kpvgpukk{ "cpf "; 702' "qh'vj g'r tqvqeqn'ur gekhkgf "ekur nckp'f qug'kpvgpukk{ "cpf "; 702' "qh'vj g'r tqvqeqn'ur gekhkgf "ekur nckp'tgegkxgf "c'tgrcvkxg'f qug'kpvgpukk{ "qh': 70 ' "qh'vj g'r tqvqeqn'ur gekhkgf " i go ekcdkpg'f qug'kpvgpukk{ "cpf "; 507' "qh'vj g'r tqvqeqn'ur gekhkgf "ekur nckp'f qug'kpvgpukk{ 0

Vj g'r tko ct { "gpf r qkpv'kp" vj ku'uwf { "y cu''qxgtcm'uwtxkxcn'Vj g''o gf kcp"uwtxkxcn'Vko g'y cu''3205 o qpvj u'kp" vj g''CNKO VC "r nwu" ekur ncvkp" ttgcvo gpv'cto "cpf "3205 o qpvj u'kp" vj g''i go ekxcdkpg "r nwu"ekur ncvkp" cto . "y ksj "cp" cf lww.gf "j c| ctf "tcvkq" qh'20; 60

Vcdrg 32<Hkt u/Nkpg'Vj gt cr { <GHlece{ 'kp'P UENE'/ kVV'Rqr wrevkt j KVcdn



PUENE' P Papus weo qwu'P UENE' cpf 'Us

Pqp/Uo cmEgmlNwpi 'Ecpegt'/ Ockpvgpcpeg

C'v wnk/egpyst."tcpf qo k gf. "f qwdng/dnkpf."r ncegdq/eqpytqmsf "uwf {'y} y j q"f kf "pqv"r tqi tguu"chyst "hqwt "e{ergu"qhl'r ncvkpwo /dcusf "ej go qyj stcr {0Rcvks CNKO VC"qt"r ncegdq"ko o gf kcysn{"hqmy kpi "r ncvkpwo /dcusf "ej go qyj stcr {00 32 o kpwsu"cv"c"f qug"qh"722 o i lo 4 qp"f c{ 3"qh"gcej "43/f c{"e{erg."yyykst kusc

32 o kpwgu'cv'c'Fqug'qh'722 o i lo *qp'F\c{ 3''qh''gcej ''43/fc{ ''e{erg. 'wykeff kugc cekf.'xkxco kp D₃₄. 'kpf ''f gzco gyj cuqpg'' Vj g''uwf {''y ku''f guki pgf ''\q''f go qpuvtcvg''uwr gtkqt''r tqi tguukqp/htgg''uwtx Rtqi tguukqp/htgg''uwtxkxcn*RHU+'y cu''cuuguugf ''d{ 'kpf gr gpf gpyf gxkgy O'Rcvkgpv''d

uj qy p'kp"Vcdrg 340Vj g'kgo qi tcrj keu'cpf "dcugrkpg"f kugcyge'ej ctcevytkuvkeu'y g

Vcdng 34 O clayspepeg'Vj gt.cr { < Uwo o ct { 'qliRcvlgpv'l

Rcvkgpv'ej ctcevgtkuske

Ci g'*{tu+

'"O gf kcp'*tcpi g+

I gpf gt

""O crg lHgo crg

Gvj ple'Qt ki kp

""Ecweculcp

""Gcuv'Culcp

""Qvj gt

Usci g'cv'Gpyt/*

J knyrgi { '* +
"P qpus wco qwu'P UENE"

""KKG1KX/

3604

""""Cf gpqectekpqo c	444'*7205' +	328'∜6909' +
""""Ncti g"egn	32"\405" +	32'**607' +
""""Qy gt ^e	; 5''*4308' +	62'' ∜ 3: (2 ' +
""Us woo qwu	338'\\$4805' +	88''\$4; ⊕' +
GEQI 'RU ^f		
""23	6203' 17; 0; '	5: 05' 18309'
Uo qmkpi 'J kwqt {g		
""Gxgt lpgxgt 'to qngt	9603' 1470, '	9307' 14: 07'
Vko g'lt qo 'twct v'qh'kpf wevkqp'tj gtcr{'tq'twwf{'tcpf qo k cvkqp'*o qpvj u+		
""O gf kep"*tepi g+	5047'\\$308/60 +	504; '*409/708+

Uci g"cv'Gpvt { "y cu'pqv'tgr qtvgf 'hqt"cm'tcpf qo k| gf "r cvkgpvu0Rgtegpvci gu'ctg'tgr tgugpvcvkxg"qh'P ? 662'hqt"vj g"CNKO VC"cto "cpf "
P ? 444'hqt"vj g"r ncegdq"cto 0

d Kpenwf gu'r cvkgpvu'y kyj "cf gpqectekpqo c."rcti g"egm"cpf "qvj gt"j kuvqrqi ke"f kci pqugu0

^e Vj g'uwdi tqwr "qh'lõQvj gtö"tgr tgugpvu"r cvkgpvu"y kij "c"r tko ct { "f kci pquku"qh"P UENE "y j qug"f kugcug"f kf "pqv'ergctn{ "s wcrkh{ "cu" cf gpqectekpqo c."ncti g"egm'ectekpqo c."qt"us wco qwu"egm'ectekpqo c0

Gcusetp'Eqqr gtcvkxg"Qpeqmi {"I tqwr "Rgthqto cpeg"Ucwwu*GEQI RU+"y cu"pqvtgrqtvgf 'hqt"cm'tcpf qo kl gf "r cvkgpvu0Rgtegpvci gu"ctg" tgr tgugpvcvkxg"qh"P ?65; 'hqt"y jg "CNKO VC"cto ."cpf "P ?444"hqt"y g"r ncegdq"cto 0

^g Uo qmkpi "j kuvqt { 'y cu'pqv'tgr qtvgf 'hqt'cm'tcpf qo k| gf 'r cvkgpvu0Rgtegpvci gu'ctg'tgr tgugpvcvkxg''qh'P ? 659'hqt''y g'CNKO VC''cto ''cpf'' P ? 443'hqt''y g'r roegdq''cto 0

Rcvkgpwi'tgegkxgf "c"o gf kcp"qhi'7 e{ergu'qhi'CNKO VC"cpf '507 e{ergu'qhi'r rcegdq0Rcvkgpwi'tcpf qo kļ gf 'vq"CNKO VC'tgegkxgf "c" tgrcvkxg'f qug'kpvgpukv{ "qh"; 709' 0'C'vqvcn'qhi'435 r cvkgpwi'*6: (5)' +"eqo r rgvgf "×8 e{ergu'cpf "c"vqvcn'qhi'; : r cvkgpwi'*4408' +"eqo r rgvgf "×32 e{ergu'qhi'vtgcvo gpv'y ký 'CNKO VC0

Ko''y g''qxgtcm'uwf {'r qr wrcwlqp.''CNKO VC''y cu''uvcwlarkecm('uwr gtlqt''vq'r rreegdq'lp''ygto u''qh'qxgtcm'uwtxkxcn*QU+'*o gf kcp'' 3506 o qpyj u''xgtuwu''3208 o qpyj u.''J T?209; '*, 7' 'EK2087/20, 7+'r/xcnwg?20234+'cpf 'RHU'*o gf kcp''602 o qpyj u''xgtuwu''402 o qpyj u.'' J T?2082'*, 7' 'EK'206; /2095+'r/xcnwg>2022223+0C'ff khlgtgpeg'lp''tgcvo gpv'qweqo gu'y cu'qdugtxgf ''ceeqtf kpi ''vq'j kurqmi ke'' encualthecvkqp0Hqt''yj g'r qr wrcwlqp''qh'r cvkgpvu'y kyj ''pqpus wco qwu'P UENE.''CNKO VC''y cu''uwr gtlqt''vq'r rreegdq''hqt''QU'*o gf kcp'' 3707 o qpyj u''xgtuwu''3206 o qpyj u.''J T?2092'*, 7' 'EK'2078/20: ++'cpf ''RHU'*o gf kcp''606 o qpyj u''xgtuwu''30 o qpyj u.''J T?2069'*, 7' 'EK'2059/2082++0Hqt''yj g'r qr wrcwlqp''qh'r cvkgpvu'y kyj ''us wco qwu'P UENE.''CNKO VC''f kf ''pqv'ko r tqxg''QU'eqo r ctgf ''vq'r rreegdq''*o gf kcp''; 0 o qpyj u''xgtuwu''320 o qpyj u.''J T?3029'*, 7' 'EK'2099/3072++''qt''RHU*'o gf kcp''406 o qpyj u''xgtuwu''407 o qpyj u.''J T?3025'*, 7' 'EK'2093/306; ++0Vj ku'f khlgtgpeg'lp''tgcvo gpv'ghlgev'hqt''CNKO VC''dcugf ''qp'j kuvqmi { 'f go qpuvtcvkpi ''rcem'qh''dgpghkv'kp''us wco qwu''egm'' j kuvqmi { ''y cu''cnuq''qdugtxgf ''kp''yj g''htuv/nkpg''cpf ''ugeqpf ''hpg''uwf kgu''

Ghlece { 'tguwnu'hqt'\j g''qxgtcm'r c\lgpv'r qr wrc\lqp''ctg''r tgugp\gf '\lp''Vcdrg 35"cpf "Hki wtg'5."cpf "ghlece { 'tguwnu'd { 'r tg/ur geld\lgf " j kuvqrqi le''uwdi tqwr u'ctg''r tgugp\gf '\lp''Vcdrg 36"cpf 'Hki wtg'6."dgrqy 0

Vcdrg 35<0 clpvgpcpeg'Vj gt cr { <GltHece{ 'qhiCNKO VC'xgt uwu'Rrcegdq'lp'P UENE'/ KVV'Rqr wrcvlqp

Ghlece{ 'Retco gygt ^{c,d}	CNKO VC *P ? 663+	Rncegdq *P?444+
Ogf kcp"qxgtcm'uwtxkxcr ^e *, 7' 'EK	3506 o qu'*330, /370, +	3208 o qu'*: 09/3402+
''"'Jc ctf'tcvkq''*JT+ ^e *;7' 'EK	209; '*20	87/20,7+
""r/xcm/g	r?2	0234
Ogfkcp"rtqitguukqp/htgg"uwtxkxcn"*,7' "EK	602 o qu'\\$503/606+	402 o qu'\\$307/40 +
''"'Jc ctf'tcvkq''*JT+ ^e *;7' 'EK	2082'*20	6; /2095+
""r/xcm/g	r>20	22223

RHU'cpf "QU'y gtg"ecnewncvgf "Itqo "vkog"qhi'tcpfqok, cvkqp."chxgt"eqorngvkqp"qh'6e{engu"qh'kpfwevkqp"rncvkpwo/dcugf"ejgoqyjgtcr{0

d Xcnwgu'hqt "RHU'i kxgp"dcugf "qp"lpf gr gpf gpvtgxkgy "*CNKO VC P?5: 9. 'Rrcegdq P?3; 6+0

Wpcf lwngf "j c| ctf "tc-kqu"ctg"r tqxkf gf 0C"J T >302"kpf kecvgu"vj cv"vj g"tguwnv'ku"dgwgt "kp"vj g"CNKO VC"cto "vj cp"kp"vj g"r neegdq"cto 0"

Vcdrg 36<0 claygropeg'Vi gtcr{<GHlece{'lo'PTENE'll{'!I kwami le'Uwli tawru^c

vedig 50<0 cipygpepeg vj geet (< oninece), np i chette di 3 nanqui ne omai equi d				
	Qxgt cm	Qxgt cmlUwt xlxcr		It gg'Uwt xkxcr ^d
	CNKO VC	Rrcegdq	CNKO VC	Rncegdq
	Ogf kp'*o qpvj u+	Ogf kcp'*o qpvj u+	Ogfkp'*o qpyju+	Ogf kcp'*o qpyj u⊦
	JT ^e *,	J T ^e *, 7' 'EK		7' 'E₩
Pqpus wco qwu'PUENE ^f	3707	3205	606	30
P?6:3	2092'*2078/20:+		2069'*20	59/2082+
""Cf gpqectekpqo c	380	3307	608	409
""P ? 54:	2095"*20	2095'*2078/20 8+		5: /208: +
""Ncti g'egm'ectekpqo c	: 06	90,	607	307
""P ? 42	20 : '*2058/4087+		2062'*20	34/304; +

Hi wtg'6

3605

VA!

 $i \ kxgp"qp"Fc \ 3"qh"gcej "43/fc \ "e \ erg0Cm"r \ c \ kypu" \ tgcvgf "y \ kyj "CNKO \ VC" \ tgegkxgf "xkxco \ kp"uwr r rgo gpvc \ kqp"y \ kyj "hqrke" \ cekf "cpf" xkxco \ kp \ D_{34}0" \ y \ g'uwwf \ "y \ cu" \ kpvgpf gf "vq" \ yj \ gt "cp" \ qxgtcm" \ uwxkxcn" \ uwr \ gt \ kqt \ kyf \ "qt "pqp/kphgt \ kqt \ ky \ VC" \ vq" \ f \ qegvc \ gm" \ kyvy-t" \ qr \ wrc \ kqp" \ ctg" \ yj \ yp" \ vcdrg 370$

Vcdng 37<Ugeqpf/Nkpg'Vj gtcr{<Uwo o ct{'qh'Rcvlgpv'Ej ctcevgt kwleu'kp'PUENE'Uwwf{

	CNIO VC	Fqegvczgn
Rcykgpy'ej ctcevgtkurke	*P ?4: 5+	*P ?4: : +
Cig*{tu+		
""O gf kcp *tcpi g+	7; *44/: 3+	79 *4: /: 9+
I gpf gt * +		
""O crg Hgo crg	8: 0815306	970514609
Uci g'cv'Gpvt{ * +		
""KKKIKX	47031960,	470519609
Fici pqukuU kuvquqi { * +		
""Cf gpqectekpqo c	376 *7606+	364 *6; 05+
""Us wco qwu	9: *4908+	; 6 *5408+
""Dt qpej qcnxgqnct	6 *306+	3 *205+
""Qyj gt	69 *3808+	73 *3909+
Rgt htt o cpeg'Ucwu * +c		
""2/3	456 *: : 08+	462 *: 908+
""4	52 *3306+	56 *3406+

Rgthqto cpeg'uwwu'y cu'pqv'tgrqtvgf 'hqt''cm'tcpfqo k| gf 'r cvkgpwt0Rgtegpvci gu''ctg'tgrtgugpvcvkxg''qh'P?486'hqt''yi g''CNKO VC''cto ''cpf'''
P?496'hqt''yi g''f qegvczgn''cto 0

Vj g"r tko ct { "gpf r qkpv'kp"vj ku'uwf { 'y cu'qxgtcm'uwtxkxcn'Vj g"o gf kcp"uwtxkxcn'ko g"y cu": 6 o qpvj u'kp"vj g'CNKO VC''\tgcvo gpv'' cto "cpf "90, o qpvj u'kp"vj g"f qegvczgn'cto ."y ksj "c"j c| ctf "tcvkq"qh'20; "*ugg"Vcdng 38+0"Vj g"uwf { "f kf "pqv'uj qy "cp"qxgtcm'uwtxkxcn' uwr gtkqtk\{ "qh'CNKO VC0

Vcdrg 38<Glilece{ 'qh'CNKO VC'xgt uwu'F qegvczgrllp'P qp/Uo cmEgmlNwpi 'Ecpegt'/ KVV'Rqr wrcxlqp

			
	CNKO VC	Fqegvczgn	
	*P ?4: 5+	*P ?4: : +	
Ogf kcp"qxgtcm'lwtxkxcn*, 7' "EK	: 05 o qu *902/; 06+	90, o qu *805/; 04+	
""J c ctf 'tcskq *J T+ *, 7'	20; *20 4/3042+		
Ogf kcp"rtqi tguukqp/htgg"uwtxkxcr *, 7' "EK	40, o qu *406/503+	40, o qu*409/506+	
""J c ctf 'tcskq *J T+ *, 7'	20,9 *20 4/308+		
Qxgtcmltgurqpug'tcvg *, 7' 'EK	: 07' *704/3309+	: 05' *703/3307+	

 $C'tgvtqur gevksg''cpcn(uku'qh'y g'lo r cev'qh'P UENE''j knqnqi \{''qp''qxgtcm'lwtxkscn'y cu''gzco kpgf 0Enkplecm('tgngxcpv'f khhgtgpegu'' kp''uwtxkscn''ceeqtf kpi ''vq''j knqnqi {''y gtg''qdugtxgf ''cpf ''ctg''uj qy p''kp''Vcdng 390'Vj ku''f khhgtgpeg''kp''tgcvo gpv'ghhgev'hqt''CNKO VC''dcugf ''qp'' j knqnqi {''f go qpuvtcvkpi ''c'ncem'qh'ghhlece{''kp''us wco qwu''egni'j knqnqi {''y cu''cnuq''qdugtxgf ''kp''y g''hktuv'nkpg''eqo dkpcvkqp''uwf {''cpf ''kp''y g'' o ckpvgpcpeg''uwf {''} 0$

Vcdng 39<Ugeqpf 'Nlpg'Vj gtcr{<QxgtcniUwtxlxcniQhiCNKO VC'xgtuwu'F qegwczgnilp'PUENE'd{'J kwqmi le'Uwdi t qwr u

Llarami ("Tirdi tava	O gf kcp'Qxgt cmlUwt xkxcdkp'O qpvj u *; 7' 'EK-			Wpcflwwgf' Jc ctf''	Cf lwwgf' Jc ctf''	
J kınqıqi {"Uwdi tqwr	CNЮ VC		Fqegwzgn		Tcvkq *J T+ ^{c.d} *; 7' 'EK+	Tcvkq *J T+ ^{c.d.e} *; 7' 'EK+
P qpus wco qwu'P UENE ^f	; 05	P?427	: 02	P?3;6	20;	209:
*P ?5; ; +	*90 /; 09+		*805/;05+		*2093/3035+	*2083/3022+
""Cf gpqectekpqo c	; 02	P?37:	; 04	P?365	302;	20,4
""*P ? 523+	*908/; 08+		*907/3305+		*20 5/3066+	*208;/3044+
'""Ncti g'Egrr	340	P?3:	607	P?4;	205:	2049
""*P?69+	*70/3602+		*405/;03+		*203: /209: +	*203/2085+
''"'Qyj gt ^g	; 06	P?4;	90,	P?44	2084	2079
""*P?73+	*802/3203+		*602/: 0) +		*2054/3045+	*2049/3042+
Us wco qwu'Egrr	804	P?9:	906	P?;6	3054	3078
*P ? 394+	*60, /: 02+		*708/; 07+		*20,5/30 8+	*302: /4048+

^c C'J T''y cv'ku'hguu''y cp''302'kpf kecvgu''y cv'uwtxkxcn'ku''dgwgt'kp''y g'CNKO VC cto ''y cp''kp''y g'f qegvczgncto 0'Cngtpcvkxgn(.''c'J T''y cv'ku'' i tgcvgt''y cp''302'kpf kecvgu''uwtxkxcn'ku''dgwgt''kp''y g'f qegvczgncto ''y cp''kp''y g'CNKO VC cto 0

- d Whoef lwungf 'hqt'o wndrng'eqoretkuqpu0
- $^{\rm e}~\rm J~Tu'$ cf lwuvgf 'hqt'GEQI $~\rm RU.'$ 'ko g'ulpeg'r tlqt'ej go qvj gtcr { . 'f lugcug'uvci g. 'cpf 'i gpf gt0
- ¹ Kpenwf gu'cf gpqectekpqo c. 'hcti g'egm'cpf 'qyi gt'j kuvqnqi kgu gzegr v'yi qug'y kaj 'us wco qwu'egm'v{r g0
- ^g Vj g'uwdi tqwr ''qh'lŏqvj gtö'tgr tgugpwi'r cwlgpwi'y ksj ''c'r tko ct { ''f kci pquku''qh'P UENE''y j qug'f kugcug'f kf ''pqv'ergctn(''s wcnkh{ ''cu'' cf gpqectekpqo c.''us wco qwu''egm'ectekpqo c.''qt''ncti g''egm'ectekpqo c0

3606 O crki pepy'Rrgwt criO guqvj grkqo c

C"o wik'egpyst. 'tcpf qo k gf .'ukpi rg/drkpf 'tuwf { 'lp'66: ej go qpcksg'r cykgpw'y kj ''o crki pcpv'r rgwtcri'o guqyj grkqo c *O RO +" eqo r ctgf 'tuwtxkscrilp'r cykgpw'tgcygf 'y kj ''CNKO VC'lp''eqo dkpcykqp'y kj ''ekur rcykp'y ['uwtxkscrilp'r cykgpw'tgegkskpi ''ekur rcykp''crqpg0 CNKO VC''y cu''cf o kpkrygtgf 'lpytcxgpqwur('qxgt''32 o kpwgu''cv'c''f qug''qh'722 o i b 4 cpf ''ekur rcykp'y cu''cf o kpkrygtgf 'lpytcxgpqwur('qxgt'' 4 j qwtu''cv'c''f qug''qh'97 o i b 4 dgi kppkpi ''cr r tqzko cygr(''52 o kpwgu''chgt''y g''gpf ''qh'cf o kpkrytcytqp''qh'CNKO VC0Dqyi ''f twi u'y gtg'' i ksgp''qp''F c { 3'qh''gcej ''43/f c { ''e { erg0Chygt''339 r cykgpw'y gtg''t gcygf .''y j kg''egml'cpf ''I Kyqzkeky{ ''ngf ''q''c''ej cpi g'kp''r tqyqeqri'y j gtgd{ ''cm'r cykgpw'y gtg''i ksgp''hqrke''cekf ''cpf ''xkco kp D_{34} uwr r rgo gpycykqp0

 $\label{eq:constraint} Vj\ g''r\ tho\ ct \{\ ''cpcn(\ uku''qh''y\ ku''uwf\ \{\ 'y\ cu''r\ gthqto\ gf\ ''qp''y\ g''r\ qwc wcylqp''qh''cm''r\ cvkgpwu''y\ j\ q''tgegkxgf\ ''hqrke''cekf\ ''cpf\ ''xkco\ kp\ D_{34}\ uwr\ r\ rgo\ gpvcvkqp''f\ wklpi\ ''yj\ g''gpvktg''eqwtug''qh''uwf\ \{\ ''yj\ gtcr\ \{\ ''*hwn(\ ''uwr\ r\ rgo\ gpvcvkqp''ku''tgeqo\ o\ gpf\ gf\ ''$

0 Tguwnu'lp"cm'r cwlgpvu'cpf ''vj qug'hwn(''uwr r ngo gpvgf ''y gtg''ulo knct 0 Rcvlgpv'f go qi tcr j keu'ctg''uj qy p'lp" Vcdng 3: 0

Vcdrg 3: <Uwo o ct { 'ahlRcvlgpv'Ej ctcevgt kwleu'kp'O RO 'Uwf {

reals 3. To the oreit quite aspects create and or					
	Tcpf qo k gf 'cpf '	Vtgcvgf 'Rcvlgpvu	Hwn ('Uwrrigo gpygf 'Rcylgpyu		
Rcykgpy'ej ctcevgtkurke	CNKO VC leku	Ekur nevkp	CNKO VC leku	Ekur ncvkp	
			*P ? 38: +	*P ?385+	
Cig*{tu+					
""Ogf kcp"*tcpi g+	83 *4; /: 7+	82 *3; /: 6+	82 *4; /: 7+	82 *3; /: 4+	
I gpf gt * →	•				
""O crg	3: 6 *: 306⊣	3: 3 *: 307+	358 *: 302+	356 *: 404+	
""Hgo crg	64 *3: 08+	63 *3: 07+	54 *3; (2 +	4; *390 +	
Qtkikp * →	•				
""Ecweculcp	426 *, 205+	428 *, 40 +	372 *: ; ₺ +	375 *, 50 +	
""J kur cpke	33 *60 +	34 *706+	32 *802+	9 *605+	
""Cukep	32 *606+	6 *30 +	9 *604+	5 *30 +	
""Chtlecp'f guegpv	3 *206+	2	3 *208+	2	
Uvci g'ċv'Gpvt{ * →	•	<u> </u>	1		
'""F	38 *908+	36 *805+	37 *: 0 +	34 *906+	
'""'\	57 *378+	55 *3702+	49 *3804+	49	

Jc ctf'tcvkq	2 9 9	2097
Nqi 'tepnir/xenxg ^c	20242	20273

c r/xcnwg'tghgtu''q'eqo r ctkuqp''dgw ggp''cto u0

Uło kret 't guwnu'y gt g'uggp' kp''y g''epen(uku''qh'r eukgpuu *P ? 525+'y kj

- c`

Ej go kecn'cpf "r j {ukecn'uvcdkrk{ "qh't geqpurkwyf" 'cpf "kphwlqp" 'uqnwkqpu"qh'CNKO VC" y gtg"f go qpurtcygf 'hqt "wr "vq"46 j qwtu" hqmy kpi "kpkkcn't geqpurkwykqp." y j gp" uqtgf "tght ki gtcygf." '4/: °E *58/68° H+. qt "cv"47° E *99° H+. "gzewtukqpu"r gto kwgf "vq" 37/52° E *7; /: 8° H+"]ugg" WUR'Eqprtqngf "Tqqo "Vgo r gtcwtg_0Y j gp"r tgr ctgf "cu"f ktgevgf." tgeqpurkwygf "cpf "kphwlqp" uqnwkqpu"qh" CNKO VC "eqprckp" pq" cpvko ketqdkcn'r tgugtxcvkxgu0F knectf "wpwngf" rqtvkqp" 0

CNIO VC'ku'pqv'rki j v'ugpukskxg0

39 RCVKGPV'EQWPUGNIPI 'IPHQTO CVKQP

Ugg'HFC/Crrtqxgf'Rcvkgpv'Ncdgrkpi *RRK+

Rckgpul'uj qwrf "dg"kpurtvevgf "vq"tgcf "vj g"r ckgpv'r cenci g"kpugtv'ectghwrn(0

390B Pggf 'hqt 'Hqrle'Celf 'cpf 'Xlsco lp D₃₄

Rcvkgpwi'vtgcvgf 'y ksj ''CNKO VC''o ww'dg'kpuntwevgf ''q''vcmg'hqrke''cekf ''cpf ''xksco kp D_{34} cu''c''r tqr j {ncevke''o gcuwtg''vq''tgf weg'' vtgcvo gpv'tgncvgf 'j go cvqrqi ke''cpf ''i cuntqkpvguvkpcn'vqzkek{''}

3904 Nay 'Dragf 'EgniEqwpw

Rcvkgput'uj qwrf "dg"cf gs wcygn{ "kphqto gf "qh'vj g"tkum'qh'nqy "dnqqf "egm'eqwput'cpf "kputweygf "vq"ko o gf kcygn{ "eqpvcev'vj gkt" rj {ukekcp"tij qwrf "cp{"uki p"qh'kphgevkqp"f gxgnqr "kpenwf kpi "hgxgt0Rcvkgpvu'uj qwrf "cnuq"eqpvcev'vj gkt"r j {ukekcp"kh'dnggf kpi "qt"u{o r vqo u'qh" cpgo kc"qeewt0

3905 I cust qlpvguslpcriGhgevu

Rcukgpvu'uj qwrf "dg'kpuntwevgf 'vq'eqpvcev'yj gkt'r j {ukekcp'kh'r gtukuvgpv'xqo kkpi .'f kcttj gc. "qt'uki pu'qh'f gj {f tcvkqp''cr r gct0

3906 Eqpeqo kscpvO gf kecvkqpu

Rcvkgpvu'uj qwrf "dg'kpuntwevgf "vq'kphqto "vj g'r j {ukekcp'kh'vj g{"ctg'vcmkpi "cp{"eqpeqo kxcpv'r tguetkr vkqp"qt"qxgt/vj g/eqwpvgt" o gf kecvkqpu'kpenwf kpi "vj qug'hqt'r ckp'qt'kphrco o cvkqp"uwej "cu'pqp/uvgtqkf cn'cpvk/kphrco o cvqt{"f twi u"

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RX": ; 42 COR