

Rtk o q fkw o "Ugewtkv{ "Tgxkg y

Rcujqx"Cwfkv" I tqwr

Eqpfwevgf"d{<"2zwphqti kxgp."Ujcmc."wdgt o gpuej

Qevqdtg"4pf"/"Qevqdtg":vj

Eqpvgpvu

30"Cdqwv"Rcu j q x"Cw f k v" I t q w r	3
40"Fkuenck o g t	3
50"Kpvtq f wevkq p	3
60"Cdqwv"Rtk o q f k w o	3
70"Tkum"Encuuk ħ ecvkq p	4
7030"K o r c e v	4
7040"Nkmg n k j q q f	4
7050"Cevkq p"t g s w k t g f" h q t" u g x g t k v{ " n g x g n u	5
80"Ugewtkv{ "Cuuguu o g p v"Uw o o c t{	5
90"Gzgewv k x g"Uw o o c t{	6
:0"Hk p f k p i u	9
:030"Etkvkecn"Hk p f k p i u	9
JE/23_"Rnc{ gtu" o k i j v"p q v" d g" c d n g" v q" y k v j f t c y" g c t p k p i u" k h v j g" i c o g" k u" t g u g v	9
JE/24_"V j g" r q t v k q p" q h" v j g" r q v" e q t t g u r q p f k p i" v q" n q e m g f r q k p v u" k u" p q v" f k u v t k d w v g f" v q" v j g" r n c{ g t u	10
JE/25_"O c i p g v V w t p R n c p g v u" v c d n g" k u" p q v" e n g c t g f" y j g p" v j g i c o g" k u" t g u g v	12
JE/26_"Ncem" q h" c e e g u u" e q p v t q n" k p T g u g v U{ u v g o << t g u g v I c o g*+	16
:040"O g f k w o" Hk p f k p i u	18
JO/23_"Cu{ o o g v t{ "k p" v j g" e q u v" c p f" r q k p v u" q h" q x g t t k f g u	18
JO/24_"Rwte j c u g" q h" q x g t t k f g u" e c p" k p e t g c u g" c" r n c{ g t) u" n q u u o q t g" v j c p" v j g" c e v w c n" c o q w p v" u r g p v	19
JO/25_"O q f k ħ g t" q p n{ P q v I c o g Q x g t*+ " f q g u" p q v" e j g e m" h q t F q o k p c v k q p" X k e v q t{	20
JO/26_"Uc p f y k e j" c v w c e m" h q t v w t p G o r k t g R q k p v R t k e g F q y p*+	21
JO/27_"X k e v q t u" n k u v" e c p" d g" d k i" c p f" e c p p q v" d g" j c p f n g f" k p q p g" v t c p u c e v k q p	22
JO/28_"R n c p v) u" g o r k t g" e c p" e j c p i g" d{ " h t q p v/ t w p p k p i" k p r w t e j c u g" v t c p u c e v k q p u	

]O/29_"engctNqqr*+"ecp"QQ I "dgecwug"qh"vjg"pguvgf"nqqr qxgt"g o rktgu"cpf"rncpgvu	24
]O/2:_"QQ I "gttqt"kp"engctNqqr*+	25
]O/2;_"Xwnpgtcdknkv{"vq"OGX"ucpf y ke j "cvvcemu"kp"rqkp rwtejcug"cpf"ucng"u{uvgo	25
]O/32_"rncegOci pgv"fqgu"pqv"ej gem"kh"vjg"rncpgv"ku qypgf"d{"vjg"g o rktg	26
:050"Nqy "Hkpfkpi u	28
]N/23_"Kpeqttgev"i c o g"qxgt"ej gem"kp"ae j gemVk o gXkevqt{ hwpevkqp	28
]N/24_"Y tqp i "xcnwg"cuuk i pgf"vq"vjg"gvj Urgpv"lgnf"qh"vjg RncegCekfQxgttkfgNqi "vcdng	29
]N/25_"RquvOcp ci gt0tgeqtf*+"cnmqy u"umkr rkp i "tqwpfu	29
]N/26_" I c o g"wugu"rtgfkevcdng"tcpfq o pguu"vq"ugngev"c ykppgt	30
]N/27_"Vjgtg"ctg"vyq"tgyctfu"enck o kpi "u{uvgo u"vjcv"ctg pqv"eq o rcvkdng	30
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]N/2:_"Wugtu"ecppqv"ugnn"vjgkt"rqkpvu"kp"uq o g"uegpctkqu	31
]N/2;_"Cvvcemgt"ecp"rgthqt o "tggpvtcpe{"cpf"ecwug"jct o hqt"qhh/ejckp"nq i ke	

30"Cdqwv"Rcu j qx"Cw fkv" I tqwr

Rcu j qx"Cw fkv" I tqwr"eqpukuvu"qh" o wnvkrng"vgc o u"qh"uq o g"qh"v j g"dguv"u o ctv"eqpvtcev
ugewtkv{"tgugcte j gtu"kp"v j g"urceg0" J cxkp i "c"eq o dkpgf"tgrqtvgf"ugewtkv{
xwnpgtcdknkvkgu"eqwpv"qh"qxgt"3222."v j g" i tqwr"uvtkxgu"vq"etgcvg"v j g"cduqnwvg"xgt{"dguv
cw fkv"lqwtpg{"rquukdng"/"cnv j qw i j"322 ' "ugewtkv{"ecp"pgxgt"dg" i wctcpvggf."y g"f q
i wctcpvgg"v j g"dguv"ghhqtvu"qh"qwt"gz r g t k g p e g f"tgugcte j gtu"hqt" { qwt"dnqeme j ckp
rtqvqeqn0"E j gem"qwt"rtgxkqwu"y qtm" jgtg"qt"tgcej"qvw"qp"Vy kvvgt" B rcu j qxmtw o.0

40"Fkuenck o gt

C"u o ctv"eqpvtcev"ugewtkv{"tgxkgy"ecp"pgxgt"xgtxh{"v j g"eq o rngvg"cdugpeg"qh
xwnpgtcdknkvkgu0"V j ku"ku"c"vk o g."tguqwtg"cpf"gz r g t k u g"dqwpf"ghhqtv"y jgtg"y g"vt{"vq
łpf"cu" o cp{"xwnpgtcdknkvkgu"cu"rquukdng0"Y g"ecp"pqv" i wctcpvgg"322 ' "ugewtkv{"chvgt
v j g"tgxkgy"qt"gxgp"kh"v j g"tgxkgy"y kmn"łpf"cp{"rtqdng o u"y kvj" { qwt"u o ctv"eqpvtcevu0
Uwdugswgpv"ugewtkv{"tgxkgyu."dw i "dqwpv{"rtqi tc o u"cpf"qp/ejckp" o qpkvqtkpi"ctg
uvtqpin{"tgeq o o gpfgf0

50"Kpvtq fwevkqp

C"vk o g/dqzgf"ugewtkv{"tgxkgy"qh"v j g"r t k o q f k w o z { | l r t k o q f k w o / g o r k t g u / c w f k v /
r cu j qx"tgrqukvqt{"y cu"fqpqg"d {"**Rcu j qx"Cw fkv" I tqwr**."y kvj" c"hqewu"qp"v j g"ugewtkv{
curgevu"qh"v j g"cr rnkecvkqp)u"u o ctv"eqpvtcevu"k o rng o gpvcvkqp0

60"Cdqwv"Rtk o q fkw o

V j g"rtqvqeqn"tgyctfu"rnc{gtu"dcugf"qp"v j gkt"r qkpvu"kp"v j g"y kppkpi" g o r k t g.
fkuvtkdwvki"hwpfu"hqt"y kvj f t c y c n."cpf"cmnqyu"rnc{gtu"vq"kpÆwgpeg"i c o g r n c {"d {
nqemkpi"r qkpvu0"Rtkegu"cf lwuv"f {pc o kecn {"y kvj" gcej"vtcpucev kqp."cpf" c
rugwfqtcpfq o "hwpevkqp"ugngevu"v j g"y kppgt"kp"vkg"uegpctkqu0

70"Tkum"Encuukłecvkqp

Ugxgtkv{	K o rcev<"Jki j	K o rcev<"Ogfkwo	K o rcev<"Nqy
Nkmgнкjqqf<"Jki j	Etkvkecn	Jki j	Ogfkwo
Nkmgнкjqqf<"Ogfkwo	Jki j	Ogfkwo	Nqy
Nkmgнкjqqf<"Nqy	Ogfkwo	Nqy	Nqy

7030"K o rcev

- Jki j"/"ngcfu"vq"с"ukіpkłecpv" o cvgtkcн"nquu"qh"cuugvu"kp"vjg"rtqvqeqn"qt"ukіpkłecpvн{ jctou"с"itqwr"qh"wugtu0
- Ogfkwo"/"qpн{ "с"u o cmн"с o qwpv"qh"hwpfu"ecp"dg"nquv"*uwej"cu"ngcmc i g"qh"xcnwg+"qt"с eqtg"hwpvkqpснкv{ "qh"vjg"rtqvqeqn"ku"chhgevгf0
- Nqy"/"ecp"ngcf"vq"сp{ "mkpf"qh"wpгzrgevгf"dgjcxkqt"ykvj"uqog"qh"vjg"rtqvqeqn)u hwpvkqpснкvgu"vjcv)u"pqv"uq"etkvkecn0

7040"Nkmgнкjqqf

- Jki j"/"cvvcem"rcvj"ku"rquukdng"ykvj"tgcuqpсdng"cuuw o rvkqpu"vjcv"okoke"qp/ejckp eqpfkvkqpu."сpf"vjg"equv"qh"vjg"cvvcem"ku"tgncvкxgn{ "nqy"eqo rctгf"vq"vjg"с o qwpv"qh hwpfu"vjcv"ecp"dg"uvqngp"qt"nquv0
- Ogfkwo"/"qpн{ "с"eqpfkvkqpсcmн{ "kpegpvкxk | g f"cvvcem"xgevqt."dwv"uvknn"tgncvкxgn{ nkmgн{0
- Nqy"/"jcu"vqq" o сp{ "qt"vqq"wpnkmgн{ "cuuw o rvkqpu"qt"tgswktgu"с"ukіpkłecpv"uvcmg"d{ vjg"cvvcemgt"ykvj"nkvvng"qt"pq"kpegpvкxg0

7050"Cevkqp"tgs wktgf"hqt"ugxgtkv{"ngxgnu

- Etkvkecn"/"Owuv"ǀz"cu"uqqp"cu"rqqukdng"*kh"cntgcf{"fgrnq{gf+
- Jki j"/"Owuv"ǀz"*dghqtg"fgrnq{ o gpv"kh"pqv"cntgcf{"fgrnq{gf+
- Ogfkwo"/"Ujqwnf"ǀz
- Nqy"/"Eqwnf"ǀz

80"Ugewtkv{"Cuuguu o gpv"Uw o o ct{

tgxkgy"eqo okv"jcu j"/"32gg7:g86:g2f679ege9:;665c;7:;ff:5d8d529

ǀzgu"tgxkgy"eqo okv"jcu j"/"h979988h3;3dg2;d;h:64cg3567c795d345;4d44

Ueqrg

Vjg"hqmqy kpi"u o ctv"eqpvtcevu"ygtg"kp"ueqrg"qh"vjg"cwfkv<

- Š~↔^ \bRá *
- Ø^↔ \Šã↔´æ
- Q↔âŠ {æãã↔äæ
- Q↔âŠ~↔^ \b
- Q↔âŠã↔´æ
- Ů↔ \áããá } Þá←æU]b \æ↑
- Þæ } áããbU]b \æ↑
- Þæbæ \U]b \æ↑
- Š {æãã↔äæUâ↔*U]b \æ↑
- Š {æãã↔äæUâ↔æ→äU]b \æ↑
- Š {æãã↔äæUâ↔æ→äÓá \æãU]b \æ↑
- Š {æãã↔äæŠ~↔^ \bU]b \æ↑
- Š {æãã↔äæRá&^æ \bU]b \æ↑
- Š {æãã↔äæN↔ããã~*U]b \æ↑
- Š {æãã↔äæN´↔äU]b \æ↑
- Ó↑*↔ãæbU]b \æ↑
- Nä↑↔^U]b \æ↑
- Þæbæ \O→æáãQ~~*U |âb]b \æ↑
- Šá]~ | \Rá^á&æãÈb~→

90"Gzgewvkxg"Uw o o ct{

Qxgt"vjg"eqwtug"qh"vjg"ugewtkv{"tgxkgy."2zwphqti kxgp."Ujcmc."wdgtogpuej"gpici gf
ykvj"Rtkoqfkw o "vq"tgxkgy "Rtkoqfkw o 0"kp"vjku"rgtkqf"qh"vkog" c"vqvcn"qh"45"kuuwgu
ygtg"wpeqxgtgf0

Rtqvqeqn"Uw o o ct{

Rtqvqeqn Pcog	Rtkoqfkw o
Tgrqukvqt{	jvvru<11ikvjwd0eqo lrtkoqfkw o z{ lrtkoqfkw o /g o rktgu/cwfkv/ rcujqx
Fcvg	Qevqdg t"4pf"/"Qevqdg t":vj
Rtqvqeqn V{rg	Icog

Hkpfkpiu"Eqwpv

Ugxgtkv{	Coqwpv
Etkvkecn	6
Ogfkwo	32
Nqy	;
Vqvcn"Hkpfkpiu	45

Uw o o c t { " q h " H k p f k p i u

KF	Vkvng	Ugxgtkv{	Uvcvwu
<u>1E/23</u> _-	Rnc{gtu" o k i j v"pqv"dg"cdng"vq" y kv j ftc y gctpkp i u"kh"v j g" i c o g"ku"tgugv	Etkvkecn	Tguqnxgf
<u>1E/24</u> _-	V j g" r q t v k q p" q h" v j g" r q v" e q t t g u r q p f k p i v q" n q e m g f" r q k p v u" k u" p q v" f k u v t k d w v g f" v q v j g" r n c { g t u	Etkvkecn	Tguqnxgf
<u>1E/25</u> _-	O c i p g v V w t p R n c p g v u" v c d n g" k u" p q v e n g c t g f" y j g p" v j g" i c o g" k u" t g u g v	Etkvkecn	Tguqnxgf
<u>1E/26</u> _-	Ncem"qh"ceeguu"eqpvtqn"kp TgugvU{ uv g o <<tgugv I c o g*+	Etkvkecn	Tguqnxgf
<u>1O/23</u> _-	Cu{ o o g v t { " k p" v j g" e q u v" c p f" r q k p v u" q h q x g t t k f g u	O g f k w o	Tguqnxgf
<u>1O/24</u> _-	Rwte j c u g" q h" q x g t t k f g u" e c p" k p e t g c u g" c r n c { g t) u" n q u u" o q t g" v j c p" v j g" c e v w c n c o q w p v" u r g p v	O g f k w o	Tguqnxgf
<u>1O/25</u> _-	O q f k l g t" q p n { P q v I c o g Q x g t*+ " f q g u p q v" e j g e m" h q t" F q o k p c v k q p" X k e v q t {	O g f k w o	Tguqnxgf
<u>1O/26</u> _-	Uc p f y k e j" c w c e m" h q t v w t p G o r k t g R q k p v R t k e g F q y p*+	O g f k w o	Cempq y n g f i g f
<u>1O/27</u> _-	X k e v q t u" n k u v" e c p" d g" d k i" c p f" e c p p q v" d g j c p f n g f" k p" q p g" v t c p u c e v k q p	O g f k w o	Tguqnxgf
<u>1O/28</u> _-	Rncpv)u" g o r k t g" e c p" e j c p i g" d { " h t q p v / t w p p k p i" k p" r w t e j c u g" v t c p u c e v k q p u	O g f k w o	Tguqnxgf
<u>1O/29</u> _-	e n g c t N q q r*+ " e c p" Q Q I " d g e c w u g" q h" v j g p g u v g f" n q q r" q x g t" g o r k t g u" c p f" r n c p g v u	O g f k w o	Tguqnxgf
<u>1O/2:</u> _-	Q Q I " g t t q t" k p" e n g c t N q q r*+	O g f k w o	Cempq y n g f i g f

<u>JO/2:-</u>	Xwnpgtcdknkv{"vq"OGX"ucpfykej cvcemu"kp"rqkpv"rwtejcug"cpf"ucng u{uvgo	Ogfkwo	Tguqnxgf
<u>JO/32-</u>	rncegOcipgv"fqgu"pqv"ejgem"kh"vjg rncpgv"ku"qypgf"d{"vjg"gorktg	Ogfkwo	Cempqyngfigf
<u>JN/23-</u>	kpeqttgev"icog"qxgt"ejgem"kp aejgemVko gXkevqt{"hwpevkqp	Nqy	Tguqnxgf
<u>JN/24-</u>	Ytqpi"xcnwg"cuukipgf"vq"vjg"gvjUrgpv lgnf"qh"vjg"RncegCekfQxgttkfgNqi vcdng	Nqy	Tguqnxgf
<u>JN/25-</u>	RquvOcpctgttgeqtf*+"cnqyu"umkr rkp i tqwpfu	Nqy	Tguqnxgf
<u>JN/26-</u>	Icog"wugu"rtgfkevcndng"tcpfqopguu"vq ugngev"cykppgt	Nqy	Cempqyngfigf
<u>JN/27-</u>	Vjgtg"ctg"vyq"tgyctfu"encko kpi u{uvgo u"vjcv"ctg"pqv"eqo rcvkdng	Nqy	Cempqyngfigf
<u>JN/28-</u>	Ujkgnf"Gcvgt"ecp"dg"fgvqpcvgf"qp wpqypgf"rncpgvu	Nqy	Cempqyngfigf
<u>JN/29-</u>	Kp"fgngicvgf"ecnu"gzeguu"gvjgt"ku tghwpfgf"vq"vjg"fgngicvqt"kpuvpcf"qh vjg"ecmngt	Nqy	Cempqyngfigf
<u>JN/2:-</u>	Wugtu"ecppqv"ugnn"vjgkt"rqkpvu"kp"uqog uegpctkqu	Nqy	Cempqyngfigf
<u>JN/2:-</u>	Cwvcemgt"ecp"rgthqto"tggpvtcpe{"cpf ecwug"jcto"hqt"qhh/ejckp"nqike	Nqy	Tguqnxgf

:0"Hkpfkpiu

:030"Etvkecn"Hkpfkpiu

JE/23_"Rnc{gtu"okijv"pqv"dg"cdng"vq
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Ugxgtkv{

Korcev<"Jkij

Nkmgkjqqf<"Jkij

Fguetkrvkqp

Vjg"hwpfu"qh"vjg"rqv"ctg"ogcpv"vq"dg"ugpv"vq"vjg"Şá] ~ | \Rá^á&æã"eqpvtcev"uq"vjcv
rnc{gtu"ecp"ykvjftcy"vjgkt"gctpkpiu"cv"vjgkt"ngkuwtg0"Jqygxgt."kp"vjg"ewttgpv
kornogpvcvkqp."vjg"hwpfu"ctg"pqv"ugpv"vq"vjg"Şá] ~ | \Rá^á&æã"eqpvtcev."uq"vjg
ykvjftcy"cn"qh"gctpkpiu"ku"fgcnv"ykvj"d{"vjg"Þæ}áãäbU] b\æ↑È } ↔ \áãää } Óää^↔^&b
hwpevkqp0

Vjg"kuuwg"ku"vjcv"vjg"Þæ}áãäbU] b\æ↑È } ↔ \áãää } Óää^↔^&b"hwpevkqp"ecp"qpn{"dg
ecmgf"kh"vjg"icog"ku"qxgt."ogcpki"vjcv"rnc{gtu"ecp"qpn{"ykvjftcy"vjgkt
gctpkpiu"hqt"vjg"vkog"dgvyggp"vjg"gpf"qh"vjg"icog"cpf"vjg"dgikppki"qh"vjg
pgzv"icog0"Kh"vjg"icog"ku"tgugv."vjg"rnc{gtu"ykn"pqv"dg"cdng"vq"ykvjftcy"vjgkt
gctpkpiu0

Pqvg"vjcv"vjgtg"ku"cpqvjgt"tgrqtvgf"kuuwg"cdqvw"vjg"ncem"qh"ejgemu"kp"vjg
äæbæ\Öá↑æ"hwpevkqp."yjej"cnqyu"vjg"icog"vq"dg"tgugv"cv"cp{"vkog"d{"cp{qpg0
Dwv"gxgp"chvgt"łzkip"vjcv"kuuwg."vjg"rnc{gtu"ykn"uvkn"pqv"dg"cdng"vq"ykvjftcy
vjgkt"gctpkpiu"kh"vjg"icog"ku"tgugv0

Tgeqoogpfcvkqpu

Tgrnceg"vjg"Þæ}áãäbU] b\æ↑"hqt"c"pgy"u{uvgo"vjcv"gpfu"vjg"icog"yjpg"vjg
tgswtgf"eqpfvkqpu"ctg"ogv."cpf"ugpfu"vjg"hwpfu"vq"vjg"Şá] ~ | \Rá^á&æã

JE/24_ "V j g" r q t v k q p " q h " v j g" r q v " e q t t g u r q p f k p i v q " n q e m g f " r q k p v u " k u " p q v " f k u v t k d w v g f " v q " v j g r n c { g t u

U g x g t k v {

K o r c e v < " J k i j

N k m g n k j q q f < " J k i j

F g u e t k r v k q p

V j g " } ↔ \ á á á á } Ó á á ^ ↔ ^ & b " h w p e v k q p " k p " v j g " ð æ } á á á á b U] b \ æ ↑ " e q p v t c e v " e c n e w n c v g u " v j g
c o q w p v " q h " r q v " v q " f k u v t k d w v g " v q " v j g " r n c { g t " d c u g f " q p " v j g " p w o d g t " q h " r q k p v u " v j g {
j c x g " k p " v j g " y k p p k p i " g o r k t g 0 " V j g u g " c t g " u q o g " q h " v j g " u v g r u " k p " v j g " h w p e v k q p <

30" I g v " v j g " v q v c n " r q k p v u " k u u w g f " v q " v j g " y k p p k p i " g o r k t g " * n k p g " 353 + 0

40" I g v " v j g " r n c { g t) u " r q k p v u " k p " v j g " y k p p k p i " g o r k t g " * n k p g " 358 + . " g z e n w f k p i " v j g
n q e m g f " r q k p v u " * n k p g " 359 + 0

50" E c n e w n c v g " v j g " r n c { g t) u j c t g " q h " v j g " r q v " d c u g f " q p " v j g k t " r q k p v u " * n k p g " 364 + 0

Ô↔æíÁÆ}áääbU]b\æ↑Èb↔

FGIíÁÁÁà| ^´\↔^Á|↔\ääää}Óää↔^&bÇDÁ*|â↔^ÁŽ~^→]Öá↑æŠ{æää|
FGWíÁÁÁÁÁÓÓ↑*↔ääÁ|↔^↔^&Ó↑*↔ääÁKÁÛ↔^↔^&Ó↑*↔ääÈ&æ\ÇDÌ
FGííÁÁÁÁÁää@|↔ää
ÁÁÇ|↔^↔^&Ó↑*↔ääÁKÁÓÓ↑*↔ääÈSÚQQÊÁYÆ}áääbU]b\æ↑ÝÁS~Áæ↑*↔ääÁábÁ}~^Á\áæÁá↑æÄDÌ
FGííÁ
FGííÁÁÁÁÁÁ\|æbGÁ*→á]æäØÁKÁáääääæbbÛ~ØäÇŽ↑b&Uæ^ääÇDDÌ
FĞeiÁ
FĞFiÁÁÁÁÁ|↔^GíWíæ↑*↔ääŞ~↔^bÁKÁÓ↑*↔ääÈ&æ\Ş~↔^bØbb|æäÇ|↔^↔^&Ó↑*↔ääDÌ
FĞGiÁÁÁÁÁ↔äÁÇæ↑*↔ääŞ~↔^bÁKÁ€DÁ|
FĞĞíÁÁÁÁÁÁää\|ä^î
FĞHiÁÁÁÁÁc
FĞííÁ
FGWíÁÁÁÁÁ|↔^GíWí*→á]æäÓ↑*↔ääŞ~↔^bÁKÁŞ~↔^bRá*È&æ\Ûá→|æ
ÁÁÇ|↔^↔^&Ó↑*↔ääÈÁ*→á]æäØäDÁÈ
FĞííÁÁÁÁÁÁŞ~↔^bRá*È&æ\Q~´æäŞ~↔^bÇ|↔^↔^&Ó↑*↔ääÈÁ*→á]æäØäDÌ
FĞííÁ
FĞííÁÁÁÁÁ↔äÁÇ*→á]æäÓ↑*↔ääŞ~↔^bÁKÁ€DÁää\|ä^î
FHeíÁ
FHFíÁÁÁÁÁ|↔^GíWí*~\ÁKÁÇÑá→á´æbÈ&æ\ÇÓRŞØFÓUŽSNRÓUŞNOÓŽØEDDÌ
FHGiÁÁÁÁÁ|↔^GíWí*→á]æäŞ~\ÁKÁÇ*~\ÁEÁ*→á]æäÓ↑*↔ääŞ~↔^bDÁĐÁæ↑*↔ääŞ~↔^bÌ
FHĞíÁ
FHHíÁÁÁÁÁŞ→á]æäbRá*Èbæ\Öá↔^Ç*→á]æäØäÈÁŞ→á]æäbRá*È&æ\
ÁÁÇ*→á]æäØäDÈ&á↔^ÁEÁ*→á]æäŞ~DÌ
FHIíÁÁÁÁÁŞ~↔^bRá*Èäæ↑~{æÇ|↔^↔^&Ó↑*↔ääÈÁ*→á]æäØäDÌ
FHIíÁ
FHííÁÁÁÁÁØÛ~ä→äÇŽ}~ä→äÇDDÈ\ää^bàæÑá→á´æÛ~Nääääæbb
ÁÁÇÓRŞØFÓUŽSNRÓUŞNOÓŽØEÁŽ↑b&Uæ^ääÇDÈÁ*→á]æäŞ~DÌ
FHííÁÁÁc

Vjg"kuuwg"ku"vjcv"æ↑*↔ääŞ~↔^b"kpenwfgu"dqvj"nqemgf"cpf"wpnqemgf"rqkpvu.
yjkng"*→á]æäÓ↑*↔ääŞ~↔^b"qpñ{"kpenwfgu"wpnqemgf"rqkpvu0"Vjku"ogcpu"vjcv"c
rqtvkqp"qh"vjg"rqv"eqttgurqpfpki"vq"nqemgf"rqkpvu"ku"pqv"fkuvtkdwvgf"vq"vjg
rnc{gtu"cpf"ku"nqemgf"kp"vjg"eqpvtcev0

Ngv)u"eqpukfgt"vjg"hqnnqykpí"uegpctkq<

- Vjg"vqvcn"rqkpvu"kuuwgf"vq"vjg"ykppkpi"go rktg"ku"37"cpf"vjg"vqvcn"rqv"ku"37
gvjgt0
- Rnc{gt"C"jcu"32"rqkpvu"kp"vjg"ykppkpi"go rktg."7"qh"yjkj"ctg"nqemgf0
- Rnc{gt"D"jcu"7"rqkpvu"kp"vjg"ykppkpi"go rktg."cnn"wpnqemgf0
- Rnc{gt"C"ykvjftcyu"7"gvjgt"htqo"vjg"rqv<FIÁæ\áääÁEÁÇF€Á*~↔^bÁĖÁI
~↔^bDÁĐÁFIÁ~↔^b0
- Rnc{gt"D"ykvjftcyu"7"gvjgt"htqo"vjg"rqv<FIÁæ\áääÁEÁIÁ*~↔^bÁĐÁFI
*~↔^b0
- Vjg"tgockpki"7"gvjgt"kp"vjg"rqv"ku"nqemgf"kp"vjg"eqpvtcev0

Tgeq o o gpf cvkqpu

Qrvkqp"3<"Wpnqem"cnn"rqkpvu"hqtvjg"ykppkpi"go rktg"yjpg"vjg"icog"gpfu0"Vjku
yc{."vjg"rqtvkqp"qh"vjg"rqv"eqttgurqpfpki"vq"nqemgf"rqkpvu"ku"fkuvtkdwvgf"vq"vjg

rnc{gtu"vjcv"nqemgf"vjg o "dcugf"qp"vjgkt"pw o dgt"qh"nqemgf"rqkpvu0

Qrvkqp"4<"Uwdvtcev"vjg"vqvcn"rqkpvu"nqemgf"kp"vjg"ykppkpi"g o rktg"htq o

æ↑*↔ãæ\$~↔^b0"Vjku"yc{."vjg"rqtkqp"qh"vjg"rqv"eqttgurqpfkpi"vq"nqemgf"rqkpvu
ku"fkuvtkdwvgf"gxgpn{"c o qpi"cmn"rnc{gtu"dcugf"qp"vjgkt"pw o dgt"qh"wpnqemgf
rqkpvu0

JE/25_"OcipgvVwtpRncpgvu"vcdng"ku"pqv engctgf"y jgp"vjg"i c o g"ku"tgugv

Ugxgtkv{

Ko rcev<"Jki j

Nkmgnkjqqf<"Jki j

Fguetkrvkqp

Vjg"ãæbæ\Öá↑æ"hwpevkqp"kp"vjg"pæbæ\Ujb\æ↑"eqpvtcev"tgugvu"vjg"i c o g"d{
engctkpi"vjg"pgeguuct{"vcdngu"cpf"ugvvpki"vjg"kpkvkc"fcvc0

Jqy gxgt."vjg"Rá&^æ\Ů|ã^\$→á^æ\b"vcdng"ku"pqv"engctgf"y jgp"vjg"i c o g"ku"tgugv0
Vjg"fcvc"qh"vjku"vcdng"ku"wugf"gxgt{"vk o g" | *ää\æÛ~ã→ä"ku"ecnngf"vq"ejgem"y jcv
o cipgvu"ujqwnf"dg"tg o qxgf0

Ô↔↔æîĀŮ*ää\æRá&^æ\bU|âb]b\æ↑Èb~→

eqpvtcevĀWrfcvgOcipgvuŬwdu{uvgoĀ↔bĀÓ↑*↔ãæbU]b\æ↑Ā|

ĀĀĀ| ^´\↔~^Ā| *ää\æRá&^æ\bÇDĀ*|â↔↔´Ā|

ĀĀĀĀ|↔^GIMĀ^æ[\Ů|ã^ĀKĀŮ|ã^È&æ\Ůá→|æÇDĀĒĀFĪ

ĀĀĀĀ11"tgoqxs"ocipgvu"vjcv"ujqwnf"dg"tgoqxgf"hqt"vjg"pgzv"vwtp"hqt"gcej"gorktg."

ĀĀĀĀ11"uq"vjg"vwtp"uvctvu"qp"cp"wrfcvgf"uvcvg

ĀĀĀĀà~āĀÇ|↔^ĪĀ↔ĀKĀFĪĀ↔ĀJKĀ\$ŽŌá↑æO~^à&È&æ\Ō↑*↔ãæO~|^ÇDĪĀ↔ĒĒDĀ|

ĀĀĀĀĀĀŌŌ↑*↔ãæĀæ↑*↔ãæĀKĀŌŌ↑*↔ãæÇ↔DĪ

MLĀĀĀĀĀĀ\æbĜGYŸĀ↑æ↑~ā]Ā↑á&^æ\Ō↑*↔ãæŮ|ã^\$→á^æ\bĀKĀRá&^æ\Ů|ã^\$→á^æ\bÈ&æ\

ĀĀÇæ↑*↔ãæĒĀ^æ[\Ů|ã^DĪ

ĀĀĀĀĀĀà~āĀÇ|↔^Ā↓ĀKĀĒĪĀ↓ĀJĀ↑á&^æ\Ō↑*↔ãæŮ|ã^\$→á^æ\bÈ→æ^&āĪĀ↓ĒĒDĀ|

ĀĀĀĀĀĀĀ11"engct"ocipgv

MLĀĀĀĀĀĀQ↔âRá&^æ\Èāæ↑~{æRá&^æ\Çæ↑*↔ãæĒĀ↑á&^æ\Ō↑*↔ãæŮ|ã^\$→á^æ\bY↓ŸDĪ

ĀĀĀĀĀĀc

ĀĀĀĀĀĀRá&^æ\Ů|ã^\$→á^æ\bÈāæ→æ\æPæ´~āāÇæ↑*↔ãæĒĀ^æ[\Ů|ã^DĪ

ĀĀĀĀc

ĀĀc

c

Ngcxkpi"vjku"fcvc"kp"vjg"vcdng"yknn"rtqxqmg"vjcv"ocipgvu"okijv"dg"tgoqxgf
dghqtg"vjg{"ujqwnf"dg."dtgcmkpi"vjg"icogu"ogejcpkeu"cpf"ecwukpi"wugtu"yjq
rnceg"ocipgvu"vq"rc{"hqt"oqtg"vwtpu"vjcp"vjg{"ujqwnf0

Ugg"Rtqqh"qh"eqpegrv"hqt"c"fgvckngf"gzco rng0

Rtqqh"qh"eqpegrv<

Cff"vjg"hqmnqy kpi"eqpvtcev"vq"vjg" \æb\ "fktgevqt{"cpf"twp" *^*↑Á↑|äÁ\æb\ÁËË
à~ã&æŠ*\↔~^bKCËË↑\Á\æb\Ž↑á&^æ\ÁË{ {CÁËËb↔*Ñ|↔→ä0

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rtcioc"uqnfkv{ÁLK20:046İ
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$$\Leftrightarrow \uparrow^* \sim \tilde{a} \mid \tilde{A} \mid \tilde{A} O \Leftrightarrow \tilde{a} \tilde{a} x \rightarrow \tilde{S} \rightarrow \tilde{a}^* x \mid b U x \mid \tilde{A} c \tilde{A} \tilde{a} \tilde{a} \sim \uparrow \tilde{A} \tilde{A} \tilde{a} \tilde{a} \mid b \tilde{D} O \Leftrightarrow \tilde{a} \tilde{a} x \rightarrow \tilde{S} \rightarrow \tilde{a}^* x \mid b U x \mid \tilde{E} b \sim \rightarrow \tilde{A} \tilde{I}$$

ÁÁâ] \æbĞĜÁ**kpvgtpcn**" *→á^æ\Øäİ

ÁÁÁÁb | *æãÈbæ\Ũ*ÇDÌ

ĀĀĀĀ*→á^æ\øăĀKĀŽ&æ\ô↔ăb\š→á^æ\çÓÓ↑*↔ăæçFDDÌ

ÁÁC

AAAAA
A A A A A

ÁÁÁÁáábbæã\Ç↑á&^æ\Ó↑*÷ãüÚ|ã^S→á^æ\bË→æ^&\àÁKKÁFDò

ÁÁÁÁ}{~ä→äÈÓ↑*↔ǣæþŽŽ}{↔\ǻääǻǻ}{Óǻǻ^↔^&bCDÏ

ÁÁÁÁááááá\Ç↑á&^æ\Ó↑*↔ãæÚ|ã^S→á^æ\hÈ→æ^&\åÁKKÁFDÌ

ÁÁÁÁRá&^æ\Æá\áÁ↑æ↑~ǎǎǎǎ↑á&^æ\Æá\áÁKÁRá&^æ\È&æ\ÇÓÓ↑*↯ǎæCFDÊÁ*→á^æ\ØäDÈ

ÁÁÁÁ}~ä→äÈÓ↑*↔äæbŽŽ|*ää\æÛ~ä→äÇä~|\↔^æÛääæbâ~→äbDÌ
ÁÁc
ÁÁÀ| ^´\↔~^ÁŽ&æ\Š~\Š}^æäO↔\áää→ÇÓÓ↑*↔äæÁæ↑*↔äæDÁ*|ä→~´Á{↔æ}Áää\|ä^bÁ
ÁÁÁÁÇâ|\æbĞGÁ*→á^æ\ØäŽDÁ|
ÁÁÁÁâ|\æbĞGYŸÁ↑æ↑~ä]Á´↔\áää→Ş→á^æ\bÁKÁO↔\áää→Ş→á^æ\bUæ\È&æ\O↔\áää→Ş→á^æ\ØäbÇDÌ
ÁÁÁÁâ~äÇ|↔^GIWÁ↔ÁKÁ∈ÌÁ↔ÁJÁ´↔\áää→Ş→á^æ\bÈ→æ^&\áÌÁ↔ÈÉDÁ|
ÁÁÁÁÁ↔äÇæ↑*↔äæÁÁKÁŞ→á^æ\È&æ\Ó↑*↔äæØäÇ´↔\áää→Ş→á^æ\bY↔ŸDÁ|
ÁÁÁÁÁÁÁää\|ä^Á´↔\áää→Ş→á^æ\bY↔ŸÌ
ÁÁÁÁÁÁc
ÁÁÁÁc
ÁÁc
ÁÁ
ÁÁÀ| ^´\↔~^ÁŽ&æ\Ô↔äb\Ş→á^æ\ÇÓÓ↑*↔äæÁæ↑*↔äæDÁ↔^æä^á→Á{↔æ}Áää\|ä^bÁ
ÁÁÁÁÇâ|\æbĞGÁ*→á^æ\ØäŽDÁ|
ÁÁÁÁâ|\æbĞGYŸÁ↑æ↑~ä]Áá→Ş→á^æ\bÁKÁŞ→á^æ\bUæ\È&æ\Ş→á^æ\ØäbÇDÌ
ÁÁÁÁâ~äÇ|↔^GIWÁ↔ÁKÁ∈ÌÁ↔ÁJÁá→Ş→á^æ\bÈ→æ^&\áÌÁ↔ÈÉDÁ|
ÁÁÁÁÁ↔äÇŞ→á^æ\È&æ\Ó↑*↔äæØäÇá→Ş→á^æ\bY↔ŸDÁKKÁæ↑*↔äæDÁ|
ÁÁÁÁÁÁÁää\|ä^Áá→Ş→á^æ\bY↔ŸÌ
ÁÁÁÁÁÁc
ÁÁÁÁc
ÁÁc
c

Tgeq o o gp f cvkqpu

Engct"vjg"Rá&^æ\Û|ä^Ş→á^æ\b"vcdng"y j gp"vjg"i c o g"ku"tgugv0

J/E/26_"Ncem"qh"ceeguu"eqpvtqn"kp

TgugvU{uvgo<<tgugvIcog*+

Ugxgtkv{

Ko rcev<"Jki j

Nkmgk j qq f<"Jki j

Fguetkrvkqp

Vjg"ääæ\Öá↑æ"hwpevkqp"kp"vjg"ææ\U]b\æ↑"eqpvtcev"fqgu"pqv"ko rng o gpv"cp{
hqt o "qh"ceeguu"eqpvtqn."cnnq y kp i "cp{qpg"vq"ecnn"kv0"Vjku"etgcvgu"c"ugxgtg
xwnpgtcdknkv{."cu"cp{"wpcwvj qtk|gf"wugt"ecp"tgugv"vjg"gpvktg"i c o g"uvcvg."ngcfkp i
vq"rqvgpvken"nquu"qh"rtqi tguu"cpf"fktwrvkqp"qh"i c o grnc{0

Cffkvkqpcnn{."kp"vjg"eqpł i wtcvkqp"łng"↑|äÈ´~^ä↔&È\b."vjg"~*æ^N´´æbb"Èci"hqt
ugxgtcn"uwdu{uvgo u."kpenwfkpi"ææ\O→æääQ~~*U|âb]b\æ↑."ku"eqttgevn{"ugv"vq
ää→bæ"."dwv"vjku"ceeguu"eqpvtqn"jcu"pqv"dggp"cr rnk f"vq"vjg"ææ\U]b\æ↑
eqpvtcev0"Vjg"cdugpeg"qh"c"o qfkłgt"gphqtekp i "ceeguu"tguvtkevkqpu"gzcegtdcvgu
vjg"kuuwg0

à | ^ ` \ ↔ ~ ^ Ā ā æ b æ \ Ö á ↑ æ Ç Ð Å * | â → ~ ^ Ā |
 Ā Ā Ā Ā Ø Û ~ ā → ā Ā } ~ ā → ā Ā K Å Ø Û ~ ā → ā Ç Ž } ~ ā → ā Ç Ð Ð Ì
 Ā Ā Ā Ā } ~ ā → ā È Ó ↑ * ↔ ā æ b Ž Ž ' → æ ā ā Q ~ ~ * Ç Ð Ì
 Ā Ā Ā Ā Š Ž Ö á ↑ æ O ~ ^ â ↔ & ā \ ā Ā ↑ æ ↑ ~ ā Ĵ Ā ' ~ ^ â ↔ & Ā K Å Š Ž Ö á ↑ æ O ~ ^ â ↔ & È & æ \ Ç Ð Ì

Ā Ā Ā Ā Š Ž Ö á ↑ æ O ~ ^ â ↔ & È b æ \ Ö á ↑ æ Š { æ ā Ñ → ~ ' ←
 Ā Ā Ā Ā Ā Ā Ç d n q e m 0 p w o d g t Ā Ē Ā ' ~ ^ â ↔ & È ^ æ [\ Ö á ↑ æ Q æ ^ & \ á Ů | ā ^ b Ā Ē Ā ' ~ ^ â ↔ & È \ | ā ^ Q æ ^ & \ ā Ñ → ~ ' ← b Ð Ì
 Ā Ā Ā Ā Š Ž Ö á ↑ æ O ~ ^ â ↔ & È b æ \ Ö á ↑ æ Ů ā ā \ Ů ↔ ↑ æ b \ á ↑ * Ç d n q e m 0 v k o g u v c o r Ð Ì
 Ā Ā Ā Ā ' ā æ ā \ æ Š → á ^ ā \ b Ç Ð Ì Ā 1 1 " R n c p g v " c p f " G o r k t g " v c d n g u " c t g " t g u g v " v q " f g h c w n v " x c n w g u
 Ā Ā Ā Ā Q → ā Ů ā ↔ æ → ā Ö á \ æ ā È ↔ ^ ↔ \ ↔ á → ~ ^ æ
 Ā Ā Ā Ā 1 1 * += " 1 1 " U j k g n f G c v g t " t g n q e c v g f . " e j c t i g " t g u g v . " c p f " f g u v k p c v k q p " u g v
 Ā Ā Ā Ā ^ ↔ ^ ↔ \ Š ā ↔ ^ æ
 Ā Ā Ā Ā 1 1 * += " 1 1 " G o r k t g 0 u g v R q k p v R t k e g " c p f " Q x g t t k f g E q u v " v c d n g u " c t g " t g u g v " v q " f g h c w n v " x c n w g u
 Ā Ā Ā Ā Ů | ā ^ È b æ \ Ç d n q e m 0 p w o d g t Ā Ē Ā ' ~ ^ â ↔ & È \ | ā ^ Q æ ^ & \ ā Ñ → ~ ' ← b È Ā Ó Ó ↑ * ↔ ā æ È ð æ ā È Ā F Ð Ì

c

- **K o r n g o g p v " c e e g u u " e q p v t q n " o q f k l g t u < " C f f " c " t g u v t k e v k x g " o q f k l g t " u w e j " c u**
~^→]Š}^æã"qt"~^→]Nă↑↔^"vq"gpuwtg"v j cv"qpñ{"cw v j q t k | g f" w u g t u " e c p " e c n n " v j g
ãæbæ\Öá↑æ"hwpevkqp0
- **W r f c v g " e q p l i w t c v k q p < " G p u w t g " v j c v " ~ * æ ^ N ´ ´ æ b b " k p " v j g " ↑ | ä È ´ ~ ^ à ↔ & È \ b " l n g " k u**
e q t t g e v n { " c r r n k g f " c p f " v j c v " c e e g u u " e q p v t q n " k u " g p h q t e g f " c v " v j g " e q p v t c e v " n g x g n " c u
y g n n 0

æ[~*ã\Ä´~^b\Ä}~ã→äø^*|\ÄKÄ|
 ÄÄ^ä↑æb^ä´æiÄÄÖ↑*↔äæbÄÊ
 ÄÄb|b\æ↑bÄÄ|
 ÄÄÄÄÛ^ää\æó↑*↔äæbU|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄÄÄÛ^ää\æN´↔ÄU|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄÄÄÛ^ää\æRÄ^æ\æbU|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄÄÄÛ^ää\æſä↔æU|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄÄÄÛ^ää\æUä↔æ→äÖÄæü|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄÄÄFææ\O→æääQ~*U|âb|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÊÄÄÄFææ\U|b\æ↑ÄÄ|Ä~*æ^N´æbbiÄää→bæÄcÊ
 ÄÄcÊ

]**O/23_Cu{ o o gvt{ "kp"vjg"equv"cpf"rqkpvu"qh**
qxgttkfgu

ä|`^↔~^Ä&æ\Şă~&ăæbbş↔~^O~b\ÇĂĂĂĂĂ
 ĂĂĂĂĂĂŌŜ{æăă↔ăăŽ~{æăă↔ăăŮ}*æÊ
 ĂĂĂĂĂĂÓÓ↑*↔ăăŽæ↑*↔ăæØ↑*á´\æăÊ
 ĂĂĂĂĂĂ|↔~^GINŹ~{æăă↔ăæO~|^\
 ĂĂĂĐĂ↔~^æắá→Ă{↔æ|Ăăæ|\ă^bĂÇ|↔~^GIN
 ĂĂĂĂĂĂĂ|↔~^ÎĂæ↑*↔ăæO~|^ĲĂKĂŞŽŎá↑æO~^à↔&È&æ\Ó↑*↔ăæO~|^ĲĐİ
 ĚĂĂĂĂĂĂ|↔~^ÎĂæ^æ↑↔æbO~|^Ĳİ
 ĚĂĂĂĂĂĂĂă~ăĂÇ|↔~^ÎĂĲĂKĂFÎĂ→ĂJKĂæ↑*↔ăæO~|^ĲİĂ↔ĚĚĐĂ|
 ĚĂĂĂĂĂĂĂĂĂĂă→ăĂČÓÓ↑*↔ăæÇ→ĐĂĂKĂŽæ↑*↔ăæØ↑*á´\æăĂBBĂĂŎ↑*↔ăæÈ&æ\ØbÆăăă\æăČÓÓ↑*↔ăæ
 ĚĂÇ→DDDĂ|
 ĚĂĂĂĂĂĂĂĂĂĂĂĂĂĂă^æ↑↔æbO~|^ĲĚĚİ
 ĚĂĂĂĂĂĂĂĂĂĂĂĂc
 ĚĂĂĂĂĂĂĂc
 ĚĂĂĂĂĂĂĂĂ
 ĚĂĂĂĂĂĂĂĂăæ|\ă^Ă&æ\Ş↔~^O~b\ÇŽæ↑*↔ăæØ↑*á´\æăÊĂŽ~{æăă↔ăæO~|^ĲĂÉĂ
 ĚĂÇæ↑*↔ăæO~|^ĲĂĚĂFĐĂÉĂŞŽŞ↔~^O~^à↔&È&æ\Ş↔~^Ů↔~^ĲĐĂÉĂŞŽŠ{æăă↔ăæO~^à↔&È&æ\Ş↔~^R|→|↔*→
 ĚĂĂĂĂĂĂĂăæ|\ă^Ă&æ\Ş↔~^O~b\
 ĚĂÇŽæ↑*↔ăæØ↑*á´\æăÊĂŽ~{æăă↔ăæO~|^ĲĂÉĂă^æ↑↔æbO~|^ĲĂÉĂŞŽŞ↔~^O~^à↔&È&æ\Ş↔~^Ů↔~^ĲĐĂÉĂŞŽŠ
 ĚĂĂĂc

a|'^\↔~^ÃŽ*|ă´âábæš{æăă↔ăæÇ
ÇÈÈÈÈ
ĂĂĂ↔ăĂÇ*ă~&ăæbbš{æăă↔ăæDĂ|
ĖĂĂĂĂĂĂ|↔^\\îĂæ^æ↑↔æbO~|^\\î
ĖĂĂĂĂĂĂă~ăĂÇ|↔^\\îĂ↔ĂKĂFĬĂ↔ĂJKĂæ↑*↔ăæO~|^\\îĂ↔ĖĖDĂ|
ĖĂĂĂĂĂĂĂĂĂ↔ăĂÇÓÓ↑*↔ăæÇ↔DĂĂKĂŽæ↑*↔ăæØ↑*ă´\æăĂBBĂĂÓ↑*↔ăæĖ&æ\ØbÆæăăă\æăÇÓÓ↑*↔ăæ
ĖĂÇ↔DDDĂ|
ĖĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂæ^æ↑↔æbO~|^\\ĖĖĬ
ĖĂĂĂĂĂĂĂĂĂĂĂc
ĖĂĂĂĂĂĂc
ĖĂĂĂĂĂĂ|↔^\\GIWĂ^|↑š~↔^\\bĂKĂŽ~{æăă↔ăæO~|^\\ĂĖĂ
ĖĂÇæ↑*↔ăæO~|^\\ĂĖĂFDĂĖĂ*~↔^\\Ů^↔^\\ĂĖĂ*~↔^\\R|→|↔*→↔æăĬ
ĖĂ
ĖĂĂĂĂĂĂĂ|↔^\\GIWĂ^|↑š~↔^\\bĂKĂŽ~{æăă↔ăæO~|^\\ĂĖĂæ^æ↑↔æbO~|^\\ĂĖĂ*~↔^\\Ů^↔^\\ĂĖĂ*~↔^\\R|→|↔*→↔

**]O/24_ "Rwtej cug"qh"qxgt tkf gu"ecp"kpetgcug" c
 rnc{gt)u"nquu" o qtg"vj cp"vjg"cevwcn" c o qwpv
 urgpv**

Ugxgtkv{

K o r c e v < " N q y

Nkmgknjqqf<"Jki j

Fguetkrvkqp

Vjg"qxgttkfg"u{uvgo"ecnn"vjg"Q↔âŠ{æãã↔äæĚŽ*|ă´âábæŠ{æãã↔äæ"hwpevkqp.
y jkej"jcpfngu"vjg"rwtejcug"qh"vjg"tgurgevkxg"qxgttkfg0"Vjg"hwpevkqp"tgegkxgu
vjg"Žb*æ^ä"rctcogvgt."y jkej"ku"vjg"coqwpv"urgpv"qp"vjg"qxgttkfg."cpf"vjku
xcnwg"ku"wugf"vq"kpctgcug"vjg"→~bb"qh"vjg"rnc{gt0

$$\begin{aligned} 0 &\leftrightarrow \mathfrak{a} \dot{\vdash} \dot{A} Q \leftrightarrow \mathfrak{a} \dot{\vdash} \{ \mathfrak{a} \dot{\mathfrak{a}} \dot{\mathfrak{a}} \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \dot{\mathfrak{E}} \mathfrak{b} \sim \rightarrow \\ \dot{\mathfrak{C}} \dot{\mathfrak{I}} \dot{\mathfrak{J}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{S}} \rightarrow \dot{\mathfrak{a}} \mid \mathfrak{a} \dot{\mathfrak{a}} \mathfrak{b} \mathfrak{R} \dot{\mathfrak{a}} * \dot{\mathfrak{E}} \mathfrak{b} \mathfrak{x} \mid \mathfrak{Q} \sim \mathfrak{b} \mathfrak{b} \mathfrak{C} * \rightarrow \dot{\mathfrak{a}} \mid \mathfrak{a} \dot{\mathfrak{a}} \mathfrak{Q} \dot{\mathfrak{a}} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \dot{\mathfrak{S}} \rightarrow \dot{\mathfrak{a}} \mid \mathfrak{a} \dot{\mathfrak{a}} \mathfrak{b} \mathfrak{R} \dot{\mathfrak{a}} * \dot{\mathfrak{E}} \mathfrak{x} \mathfrak{x} \setminus \mathfrak{C} * \rightarrow \dot{\mathfrak{a}} \mid \mathfrak{a} \dot{\mathfrak{a}} \mathfrak{Q} \dot{\mathfrak{a}} \mathfrak{D} \dot{\mathfrak{E}} \rightarrow \sim \mathfrak{b} \mathfrak{b} \dot{\mathfrak{A}} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \mathfrak{Z} \mathfrak{b} * \mathfrak{x} ^ \wedge \dot{\mathfrak{a}} \mathfrak{D} \dot{\mathfrak{I}} \end{aligned}$$

J q y g x g t . " v j g " x c n w g " r c u u g f " v q " v j g " Ž b * æ ^ ä " r c t c o g v g t " k u " Ž ↑ b & Ů á → | æ Ç D . " y j k e j
e c p " d g " j k i j g t " v j c p " v j g " c e v w c n " c o q w p v " u r g p v " d { " v j g " r n c { g t . " c u " v j g " g z e g u u " x c n w g
u g p v " k u " t g h w p f g f " v q " v j g " r n c { g t }

$$\begin{aligned} &0 \leftrightarrow \mathfrak{A} \dot{\vdash} \dot{\mathfrak{A}} \dot{\mathfrak{S}} \{ \mathfrak{a} \dot{\mathfrak{a}} \dot{\mathfrak{a}} \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \mathfrak{N}^* \leftrightarrow \dot{\mathfrak{a}} \mathfrak{U} \} \mathfrak{b} \backslash \mathfrak{a} \uparrow \mathfrak{E} \mathfrak{b} \sim \rightarrow \\ &\dot{\mathfrak{C}} \dot{\mathfrak{G}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{A}} \mathfrak{Q} \leftrightarrow \dot{\mathfrak{a}} \dot{\mathfrak{S}} \{ \mathfrak{a} \dot{\mathfrak{a}} \dot{\mathfrak{a}} \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \mathfrak{E} \dot{\mathfrak{Z}}^* \mid \dot{\mathfrak{a}}^* \dot{\mathfrak{a}} \mathfrak{a} \mathfrak{b} \mathfrak{a} \dot{\mathfrak{S}} \{ \mathfrak{a} \dot{\mathfrak{a}} \dot{\mathfrak{a}} \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \\ &\dot{\mathfrak{A}} \dot{\mathfrak{A}} \dot{\mathfrak{C}}^* \rightarrow \dot{\mathfrak{a}} \} \mathfrak{a} \dot{\mathfrak{E}} \dot{\mathfrak{Q}} \dot{\mathfrak{a}} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \dot{\mathfrak{O}} \dot{\mathfrak{S}} \{ \mathfrak{a} \dot{\mathfrak{a}} \dot{\mathfrak{a}} \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \mathfrak{E} \dot{\mathfrak{S}} \rightarrow \dot{\mathfrak{a}}^* \mathfrak{a} \mathfrak{N}^* \leftrightarrow \dot{\mathfrak{a}} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \mathfrak{a} \uparrow^* \leftrightarrow \dot{\mathfrak{a}} \mathfrak{a} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \mathfrak{F} \dot{\mathfrak{E}} \dot{\mathfrak{A}} \dot{\mathfrak{Z}} \uparrow \mathfrak{b} \& \dot{\mathfrak{U}} \dot{\mathfrak{a}} \rightarrow \mid \mathfrak{a} \mathfrak{C} \dot{\mathfrak{D}} \dot{\mathfrak{D}} \dot{\mathfrak{I}} \end{aligned}$$

Cu" c" tguwnv. " v j g" rnc { gt) u" → ~bb " y knn" dg" j k i j gt" v j cp" v j g" cevwn" c o qwpv" urgpv" qp
v j g" qxgttkfg0

Tgeq o o gp fcvkqpu

Hqt" cmn" qxgttkfg" u { uv g o u" hwpevkqpu. " r cuu" v j g" ~b\ " qh" v j g" qxgttkfg" v q" v j g
Ž* | ā´āābāš { æāā↔āæ " hwpevkqp" kpuvgc f" qh" Ž↑b&Ůā→ | æÇD 0

]O/25_ "Oqfkłgt" qpn { PqvIcogQxgt *+ " f qgu" pqv e j gem" hqt" F q o kpcvkqp" Xkevqt {

Ugxgtkv {

K o rcev<" O g fkw o

Nkmgkjqqf<" O g fkw o

Fguetkrvkqp

Uq o g" hwpevkqpu" j cxg" v j g" ~^→] S~\ Öá↑æš { æāÇD " o qfkłgtu" nkmg" ugnmkpi" r qkpvu" qt
dw { kpi" qxgttkfgu0" ~^→] S~\ Öá↑æš { æāÇD " e j gemu" v j g" i c o g" fgcfnkpg" cp f" y kppgt" v q
e j gem" hqt" i c o g" qxgt<

↑~ā↔ā↔æāŽ~^→] S~\ Öá↑æš { æāÇDĀ |
ĀĀĀĀāæ@ | ↔āæÇpæāā] E&æ\ ÇDĒĀĀYÓ↑ *↔āæbU] b\ æ↑ŸĀÖá↑æĀ^~\ Āāæāā] ĀDĪ
ĀĀĀĀāæ@ | ↔āæÇŮ↔^↔^&Ó↑ *↔āæE&æ\ ÇDĀKKĀÓÓ↑ *↔āæEŠŮQQĒĀĀYÓ↑ *↔āæbU] b\ æ↑ŸĀÖá↑æĀ~ { æāĀDĪ
ĀĀĀĀ | ↔^ ĠĪĪĀæ^ āÑ→~´ ←ĀKĀšŽÖá↑æO~^ ā↔E&æ\ Öá↑æš { æāÑ→~´ ←ÇDĪ
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ĀĀĀĀĀĀÇæ^ āÑ→~´ ←ĀKKĀĒĀ • Ādnqem0pwodgtĀJĀæ^ āÑ→~´ ←ĒĀĀYÓ↑ *↔āæbU] b\ æ↑ŸĀÖá↑æĀ~ { æāĀDĪ
ĀĀĀĀŽĪ
ĀĀc

V j g" kuuwg" ku" v j cv" v j g" eqfg" f qgup) v" e j gem" hqt" f q o kpcvkqp" xkevqt { " uegpctkqu0" Uq
v j g" i c o g" eqwnf" dg" qxgt" dwv" v j ku" o qfkłgt" y qp) v" fgvgev" kv0" V j ku" kuuwg" y qwnf
cmnq y" wugtu" v q" ecn" v j qug" r tqvgev g f" hwpevkqpu" cp f" r gthqt o " cevqpu" y j kng" v j g
i c o g" ku" r tcevkecn { " qxgt0" Qpg" k o r qtvcpv" uegpctkq" ku" y j gp" wugtu" ugg" v j cv" v j g
i c o g" ku" cdqvv" v q" ĩpku j " * y kv j " f q o kpcvkqp" uegpctkq+ " v j g { " ecp" htqp v / twp
vtcpucevqkp" v j cv" ku" cdqvv" v q" ugv" xcnwg" hqt" Ů↔^↔^&Ó↑ *↔āæ " cp f" ugn" v j gkt" r qkpvu" kp
nqukpi" g o rktgu" y j kng" Ů↔^↔^&Ó↑ *↔āæ " ku" SŮQQ 0

Tgeq o o gp fcvkqpu

Ecmm"Ž´ăæ´←ↄ↑↔^á\↔←^Ü↔´\~ăǀꝞĐ"cpf"o cmg"uwtg"vjg"ic o g"kup)v"qxgt"dgecwug
qh"vjg"fq o kpcvkqp"uegpctkq0

10/26_ "Uc p f y k e j " c v v c e m " h q t

vwt pGorktgRqkpvRtkegFqyp* +

Ugxgtkv{

K o r c e v < " O g f k w o

Nkmgnkjqqf<"Ogfkwo

Fguetkrvkqp

Cf o kpu"ecm" \ | ã ^ Ó ↑ * ↔ ã æ § ~ ↔ ^ \ § ã ↔ ´ æ € ~ } ^ Ç D " c p f " t g f w e g " v j g " r t k e g " q h " c p " g o r k t g / u
r q k p v u <

[illegible]

Vjg"kuuwg"ku"vjcv"vjg"eqfg"uwdvtevu"cp"cduqnvvg"xcnwg"htq o "vjg"g o rktg)u"rqkp)u
rtkeg0"Uq"kh"vjg"rtkeg"qh"vjg"rqkpvu"y cu"nqy gt"vjgp"vjg"rgtegpvc i g"rtkeg"fgetgcug
y qwnf"dg"jki jgt"cpf"wugtu"ecp"wug"vjku"vq"rtq l v"htq o "rtkeg"fgetgcug"d{
ucpf ykej"cvvcemu0"Wugtu"ecp)v"dw{"rqkpvu"fktgevn{"cpf"vjg{"pggf"vq"dw{"qsgttkfg
dwv"vjg"tguwnv"ku"vjg"uc o g0"Wugtu"ecp"vk o g"vjgkt"qsgttkfg"dw{u"ykvj"vjg"cf o kp)u
vtcpucevkqp"cpf"rgthqt o "vjg"ucpf ykej"cvvcem"vq"dpgp l v"htq o "vjg"cf o kp)u
vtcpucevkqpu0"Vjku"ku"vjg"RQE<"*dw{kp i "rqkpvu" o gcpu"dw{kp i "uq o g"qsgttkfg
y jkej"tguwnvu"kp"dw{kp i "rqkpvu+

30"Uwr rqug"cp"g o rktg)u"rqkp)v"rtkeg"ku"3220

40"Wugt3"jcu"72"rqkpvu"kp"vjcv"go rktg"cpf"kh"jg"dw{u"qpg"oqtg"vqmgp"kv"yqwnf
equv"3220

50"Cf o kpu"ecnn" \ | ä ^ Ó ↑ * → ã æ § ~ ↔ ^ \ § ã ↔ ´ æ £ ~ } ^ Ç D "vq"tgfweg"vjg"rtkeg"d{"32"wpkvu0

60"Wugt3"y qwnf"rgthqt o "c"ucpf y ke j "cvcem"hqt"vj g"cf o kp)u"vtcpucevkqp"cpf"ı tu v
j g"y qwnf"ugnn"j ku"72"rqkpvu"uq"vj g"rtkeg"y qwnf"dg"fgetgcugf"vq"720
70"Vj gp"vj g"cf o kp)u"vtcpucevkqp"y qwnf"dg"gzgewvgf"cpf"vj g"rqkp)u"rtkeg"y qwnf
dg"6;0
80"Pq y "Wugt3"y qwnf"dw{ "3"vqmgp"y kv j "vj g"rtkeg"qh"72"wpkvu"cpf"dw{ "vj g"uqnf"72
rqkpvu"y kv j "vj gkt"ugnn"rtkeg0
90"Kp"vj g"gp f"wugt"y cu"cdng"vq"dw{ "3"vqmgp"y kv j "c"rtkeg"qh"72"kpuvgc f"qh"3220

Tgeq o o gp f cvkqpu

Wug"rgtegpvc i g"qt"xcnwg* *~↔^ \ÄÉÁ*ä↔´ æ+"dcugf"qp"rtkeg"fgetgcug"qt"fgetgcug
vj g"rtkeg"qxgt"vk o g0

]O/27_"Xkevqtu"nkuv"ecp"dg"dk i "cpf"ecppqv"dg j cp fng f"kp"qpg"vtcpucevkqp

Ugxgtkv{

Ko rcev<"O g fkw o

Nkmg nk j qq f<"O g fkw o

Fguetkrvkqp

Eqpvtcev"Rc{ qwwOcp c i gt"j cu"dggp"wugf"vq"fkuvtkdwvg"vj g"y kppgt)u"rc{ qww0
Cf o kp)u"ecnn" äæ´ ~ääÇD"vq"ugv"y kppgtu"cpf"vj gkt"tg y ct f"co qwpvu"cpf"eqfg"nqqr u
vj tqw i j "vj qug"y kppgtu"cpf"ugvu"vj gkt"tg y ct fu"kp"vj g"uvqtc i g0

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à | ^´ \ ↔ ^ Ä ä æ´ ~ ä ä ç
ÄÄÄÄÄÄÄÄ ä ä ä ä æ b b Y Ÿ Ä ↑ æ ↑ ~ ä ] Ä Ž { ↔ ´ \ ~ ä b Ê
ÄÄÄÄÄÄÄÄ | ↔ ^ \ G I N Y Ÿ Ä ↑ æ ↑ ~ ä ] Ä Ž & ä ↔ ^ b Ê
ÄÄÄÄÄÄÄÄ | ↔ ^ \ G I N Ä Ž ä ~ | ^ ä s | ↑ ä æ ä
ÄÄÄÄÄÄÄÄ * | ä ↔ ↔ ´ Ä * ä ] ä ä → æ Ä |
ÄÄÄÄÄÄÄÄ ä æ @ | ↔ ä æ Ç ou i 0 u g p f g t Ä K K Ä ~ } ^ ä ä Ê Ä Y S N W R N S Ÿ Ä Š ^ → ] Ä ~ } ^ ä ä Ä´ ä ^ Ä ä ä ä Ä } ↔ ^ ^ ä ä b Ä D İ
ÄÄÄÄÄÄÄÄ | ↔ ^ \ G I N Ä ä → ~ ´ ä \ æ ä Ä K Ä Ê İ

ÄÄÄÄÄÄÄÄ ä ~ ä ä Ç | ↔ ^ \ G I N Ä ↔ Ä K Ä Ê İ Ä ↔ Ä J Ä Ž { ↔ ´ \ ~ ä b Ê → æ ^ & \ ä İ Ä ↔ Ê Ê D Ä |
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄ } ↔ ^ ^ ä ä b Y Ž ä ~ | ^ ä s | ↑ ä ä ä Ÿ Ê * | b ä Ç Ü ↔ ^ ^ ä ä Ç Ž { ↔ ´ \ ~ ä b Y ↔ Ÿ Ê Ä Ž & ä ↔ ^ b Y ↔ Ÿ D D İ
ÄÄÄÄÄÄÄÄÄÄÄÄ ä ä → ä ^´ æ b Y Ž { ↔ ´ \ ~ ä b Y ↔ Ÿ Ÿ Ä K Ä ä ä → ä ^´ æ b Y Ž { ↔ ´ \ ~ ä b Y ↔ Ÿ Ÿ Ä Ê Ä Ž & ä ↔ ^ b Y ↔ Ÿ İ
ÄÄÄÄÄÄÄÄÄÄÄÄ ä → ~ ´ ä \ æ ä Ä K Ä ä → ~ ´ ä \ æ ä Ä Ê Ä Ž & ä ↔ ^ b Y ↔ Ÿ İ
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Vj g"kuuwg"ku"vj cv"vj g"y kppgtu"nkuv"ecp"dg"dk i "uq"vj cv"vj g"nq i ke"qh"vj g"eqfg"ecp
QQ I "cpf"cf o kp)u"ecp"ugv"cnm"vj g"y kppgtu"kp"qpg"vtcpucevkqp0"Vj g"eqfg"fqgup)v

uwrrqtv"ugvvpki"rctv"qh"vjg"ykppgt)u"tgyctfu"hqt"e"urgek"t"tqwpf0

Tgeq o o gpfcvkqpu

Cnnqy"ugvvpki"e"uwdugv"qh"urgek"t"tqwpf"ykppgtu"kp"qpg"vtcpucevkqp0

]O/28_"Rncpv)u"go rktg"ecp"ejcpi g"d{"htqpv/ twppkpi"kp"rwtejcug"vtcpucevkqpu

Ugxgtkv{

Ko rcev<"Ogfkwo

Nkmgkjqqf<"Ogfkwo

Fguetkrvkqp

Kp"hwpevkqpu"äæá\æUå↔*ÇD"."*→á'æN'↔äÇD"cpf"äãã&æUå↔æ→äÇD"wugt"fgłpgu
*→á^æ\Øä"cpf"vjg"eqfg"rgthqtou"vjg"cevkqp"hqt"vjcv"rncpgv"cpf"kvu"go rktg"dww
vjg"eqfg"fqgup)"xgtkh{"vjg"go rktg"qh"vjg"rncpv<

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à|'^\↔~^Á'äæá\æUå↔*ÇÄÄÄÄ
ÄÄÄÄÄ] \æbĞGŽ*→á^æ\ØäÊ
ÄÄÄÄÄ|↔^GINŽ~{æäã↔äæO~|^ \
ÄÄDÄ*|ä↔~^Á*á]äâ→æÄŽ~^→]S~\Öá↑æŠ{æäÄ|
ÄÄÄÄÄ→á^æ\Äá\áá↑æ↑~ä]Ä*→á^æ\Äá\áÄKÄ→á^æ\È&æ\ÇŽ*→á^æ\ØäDÌ
ÄÄÄÄÄäæ@|↔äæÇ*→á^æ\Äá\áÈ↔b→á^æ\ÈÄÄYŠ{æäã↔äæU]b\æ↑YÄ→á^æ\Ä^~\Ää~|^ÄÄDÌ
ÄÄÄÄÄäæ@|↔äæÇÄÄÄÄÄÄÄ
ÄÄÄÄÄÄ*→á^æ\Äá\áÈæ↑*↔äæØäÄKÓÓ↑*↔äæÈSÛQQÊ
ÄÄÄÄÄÄÄYŠ{æäã↔äæU]b\æ↑Y→á^æ\↔b^~\~}^æäÄ
ÄÄÄÄDÌ
ÄÄÄÄÄ|↔^GINÄ~b\ÄKÄQ↔âä↔^æÈ&æ\Û~\á→O~b\
ÄÄÄÄÄÄÇÓŠ{æäã↔äæÈOäæá\æUå↔*ÊÄ*→á^æ\Äá\áÈæ↑*↔äæØäÊÄŽ~{æäã↔äæO~|^ \DÌ
ÄÄÄÄÄäæ@|↔äæÇŽ↑b&Üá→|æÇDÄLKÄ~b\ÈÄÄYŠ{æäã↔äæU]b\æ↑YÄØ^b|äâ↔^æ^ \Ä*á]↑æ^ \ÄDÌ
ÄÄÄÄÄÄ] \æbĞGÄ*→á]æäØäÄKÄääääæbbÛ~ØäÇŽ↑b&Uæ^äæäÇDDÌ

ÄÄÄÄÄQ↔âŠ{æäã↔äæÈŽ*|ä'äábæŠ{æäã↔äæÇÄÄÄÄÄÄÄ
ÄÄÄÄÄÄ*→á]æäØäÊ
ÄÄÄÄÄÄÄÖŠ{æäã↔äæÈOäæá\æUå↔*Ê
ÄÄÄÄÄÄÄ*→á^æ\Äá\áÈæ↑*↔äæØäÊ
ÄÄÄÄÄÄÄŽ~{æäã↔äæO~|^ \Ê
ÄÄÄÄÄÄÄŽ↑b&Üá→|æ
ÄÄÄÄD
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Vjg"kuuwg"ku"vjcv"vjg"go rktg"qh"vjcv"rncpv"ecp"ejcpi g"chvgt"vjg"wugt"ugpfu"vjg
vtcpucevkqp"*y jgp"eqo dcvu"ctg"tguqnxgf+0"Uq"fwtkpi"dcvngu"y jgp"wugtu"y cpv"vq
uwrrqtv"vjgkt"go rktg"cpf"rwtejcug"qxgttkfgu"hqt"vjgkt"rncpgvu."y knn"gpf"wr
uwrrqtvkpi"vjg"qrrqukpi"go rktg0"Cp"cwcmgt"ecp"htqpv/twp"vjg"wugt)u

vtcpucev^kq^p"c^pf"v^tkⁱ i^gt" ãæb~→{æO~↑âã\ÇD "c^pf"e^jc^pi^g"v^jg"g o r^kt^g"q^h"v^jg"u^gt/
f^gl^pg^f"rⁿc^pv"v^q"r^gth^qt o "v^jg"cv^wcem"q^t"v^jg"ku^uw^g"e^cp"ce^et^wg"d{ "kv^ug^h"f^wt^kpⁱ"j^ki^j
n^qc^f"c^pf"v^k o g"kp^vg^puk^xg"dc^vvⁿgu0

Tgeq o o gp f cvkqpu

I g^v"v^jg"g o r^kt^g"k^p"v^jg"hw^pev^kq^p)u"kp^rw^v"c^pf"x^gt^kh{ "v^jcv"v^jg"rⁿc^pv"d^gn^qpⁱu"v^q"v^jcv
g o r^kt^g0

]O/29_ "engctNqqr*+ "e^cp"QQ I "d^gec^wu^g"q^h
v^jg"p^gu^vg^f"n^qq^r"q^xg^t"g o r^kt^gu"c^pf"rⁿc^pg^vu

Ugxgtkv{

K o r^cev<"N^qy

N^km^gn^kj^qq^f<"J^ki^j

Fguetkrvkqp

Hw^pev^kq^p" ´→æããQ~~*ÇD "n^qq^ru"v^jt^qwⁱj "g o r^kt^gu"c^pf"rⁿc^pg^vu"c^pf"f^gn^gv^gu"v^jg^kt
t^ge^qt^fu<

ã~ãÃÇ|↔^\\îÃ↔ÁKÁFîÃ↔ÁJKÁæ↑*↔ãæO~|^\\îÃ↔ÉÉDÁ|
ÁÁÁÁÁÁÓÓ↑*↔ãæÃæ↑*↔ãæÁKÁÓÓ↑*↔ãæÇ↔Dî
ÁÁÁÁÁÁã~ãÃÇ|↔^\\GIIJÁ↓ÁKÁ€îÃ↓ÁJÁ*→á^æ\bÈ→æ^&\\áîÃ↓ÉÉDÁ|
ÁÁÁÁÁÁÁÁ\$æ^ã↔^&R~{æÈãæ→æ\\æÈæ´~ããÇ*→á^æ\bY↓ÿDî
ÁÁÁÁÁÁÁÁRá&^æ\\Èãæ→æ\\æÈæ´~ããÇæ↑*↔ãæÉÁ*→á^æ\bY↓ÿDî
ÁÁÁÁÁÁÁc

V^jg^tg"ct^g"8"g o r^kt^gu"c^pf"4722"rⁿc^pg^vu"kp"v^jg"u{ uv^g o "u^q"v^jg"v^qvcⁿ"kv^gt^cvk^qp"q^h"v^jg
n^qq^r"y^qwn^f"dg"372220"D^gec^wu^g"kp"g^ce^j"kv^gt^cvk^qp"hw^pev^kq^p"e^jc^pi^gu"v^jg"eq^pvt^cev)u
uv^qt^ci^g"xcⁿw^g"v^jg"i^cu"kp"g^ce^j"kv^gt^cvk^qp"e^cp"dg"j^ki^jg^t"v^jcp"4222"c^pf"v^jg"v^qvcⁿ
tg^sw^kt^gf"i^cu"y^qwn^f"dg"j^ki^jg^t"v^jcp"52O"c^pf"kv"e^cp)v"dg"gz^gew^vg^f"kp"q^pg
vtcpucev^kq^p0

Tgeq o o gp f cvkqpu

f^kx^kf^g"v^jg"y^qtm"dg^vy^ggp" o wⁿvr^{ng}"vtcpucev^kq^p"d{ "eng^ct^kpⁱ"r^ct^v"q^h"v^jg"fc^vc"kp
g^ce^j"vtcpucev^kq^p0

JO/2:_"QQ I "gttqt"kp"engctNqqr*+

Ugxgtkv{

Ko rcev<"Jki j

Nkmgkjqqf<"Nqy

Fguetkrvkqp

Hwpevkqp" Pæbæ\O→æáãQ~~*U|âb]b\æ↑È´→æáãQ~~*ÇD"ecnnu

Ş~↔^\bRá*È´→æáãÇæ↑*↔ãæD"vq"engct"cmn"vvknkvkgu"cuuqekcvgf"ykvj"cp"go rktg0"Vjg
kuuwg"ku"vjcv"vjku"hwpevkqp"nqqru"vj tqw i j"cmn"rnc{gtu"qh"vjg"go rktg"cpf"engctu
vjgkt"fcvc"cpf"kh"vjg"rnc{gt}u"eqwpv"ku"xgt{"dki"vjgp"vjg"gzgewvkqp"ecp"gpewpvg
QQI0

à|^´\↔~^Á´→æáãÇÓÓ↑*↔ãæÁæ↑*↔ãæDÁ↔^\æã^á→Á|
ÁÁÁÁâ] \æbGGYŸÁ↑æ↑~ã] Á*→á]æãbÁKÁ←æ]bÇæ↑*↔ãæDÌ
ÁÁÁÁâ~ãÁÇ|↔^\GIWÁ↔ÁKÁ↔ÌÁ↔ÁJÁ*→á]æãbÈ→æ^&\áÌÁ↔ÉÉDÁ|
ÁÁÁÁÁÁÜá→|æŽŞ~↔^\bRá*Èäæ→æ\æPæ´~ãäÇæ↑*↔ãæÊÁ*→á]æãbY↔ŸDÌ
ÁÁÁÁÁÁRæ\áŽŞ~↔^\bRá*Èäæ→æ\æPæ´~ãäÇæ↑*↔ãæÊÁ*→á]æãbY↔ŸDÌ
ÁÁÁÁc
ÁÁÁÁPæ]bŽŞ~↔^\bRá*Èäæ→æ\æPæ´~ãäÇæ↑*↔ãæDÌ
ÁÁÁÁÓ↑*↔ãæÈbæ\Ş~↔^\bØbb|æäÇæ↑*↔ãæÊÁ↔DÌ
ÁÁc

Tgeq o o gpfcvkqpu

Cff"tguvtkevkqp"vq"vjg"pw o dgt"qh"rnc{gtu"qt"cxqkf"nqqrkpi"vj tqw i j"cmn"qh"vjg o
kp"qpg"vtcpucevkvqp0

JO/2;_"Xwnpgtcdknkv{"vq"OGX"ucpfykej
cvvcemu"kp"rqkpv"rwtejcug"cpf"ucng"u{uvgo

Ugxgtkv{

Ko rcev<"Ogfkwo

Nkmgkjqqf<"Ogfkwo

Fguetkrvkqp

Vjg"ewttgpn"fgukip"qh"vjg"rqkpv"u{uvgo."y jgtg"vjg"rtkeg"qh"rqkpvu"kpetgcugu
ykvj"gej"rwtejcug"cpf"fgetgcugu"ykvj"gej"ucng."ocmgu"kv"xwnpgtcdng"vq"OGX
*Oczkocn"Gzvtcevcndng"Xcnwg+"ucpfykej"cvvcemu0"OGX"dqv"ecp"o qpkvqt"vjg
ogorqqn"cpf"htqpv/twp"ngikvkocvg"dw{gtu"qt"ugnngtu0

- **Htqpv/twppkpi" c"dw{gt<"OGX"dqv"ecp"fgvgev" c"rqkpv"rwtejcug"kp"vjg**
ogorqqn."rwtejcug"rqkpvu"cjgcf"qh"vjg"ngikvkocvg"dw{gt."ecwukpi"vjg"rtkeg
vq"kpetgcug0"Cu" c"tguwnv."vjg"ngikvkocvg"dw{gt"ku"hqtegf"vq"rc{"c"jkijgt"rtkeg
hqt"vjgkt"rwtejcug"cpf"vjg"dqv"ecp"vjgp"ugnn"cv" c"jkijgt"rtkeg0
- **Htqpv/twppkpi" c"ugnngt<"OGX"dqv"ecp"fgvgev" c"rqkpv"ucng"kp"vjg**
ogorqqn."cpf"ugnn"vjgkt"rqkpvu"cjgcf"qh"vjg"ngikvkocvg"ugnngt"cv" c"jkijgt
rtkeg."ecwukpi"vjg"rtkeg"vq"fgetgcug0"Vjku"yqwnf"ngcf"vq"vjg"ngikvkocvg
ugnngt"tgegkxkpi" c"nqygt"ucng"xcnwg"hqt"vjgkt"rqkpvu0"Vjg"dqv"ecp"vjgp"dw{
dcem"cv" c"tgfwegf"rtkeg."gzvtcevkpi"xcnwg"cv"vjg"gzrgpug"qh"vjg"ngikvkocvg
ugnngt0

Vjku"f{pcoke"ecp"ugxgtgn{"chhgev"wugt"gzrgtkgpeg"d{"kpetgcukpi"equvu"hqt
dw{gtu"cpf"fgetgcukpi"tgwvtpu"hqt"ugnngtu0"Kv"rqugu" c"ukipk1ecpv"tkum."gurgekcnn{
kp"jkij/xcnwg"vtcpucevqpu0

Tgeq o o gpf cvkqpu

Vq"okvikcvg"vjg"tkum"qh"OGX"ucpfykej"cvvcemu."kv"ku"tgeq o o gpf gf"vjcv"unkr rcig
rtqvgevkqp"ogejcpkuou"dg"kpvtqfwegf"kp"dqvj"rwtejcug"cpf"ucng"hwpevkqpu0"Vjku
yqwnf"cnmqy"wugtu"vq"urgek{"vjg"okpkowo"qt"oczkw o"ceegrvcndng"rtkeg"y jgp
dw{kpi"qt"ugnnkpi"rqkpvu."rtqvgevkpi"vjg o"htq o"ukipk1ecpv"rtkeg"ejcpi gu"ecwugf
d{"OGX"dqv0

]O/32_"rncegOcipgv"f qgu"pqv"ejgem"kh"vjg
rncpgv"ku"qy pgf"d{"vjg"go rktg

Ugxgtkv{

Ko rcev<"Ogfkwo

Nkmgnkjqqf<"Ogfkwo

Fguetkrvkqp

Vjg" *→á´æRá&^æ\ "hwpevkqp"kp" Š{æãã↔ääæRá&^æ\bU]b\æ↑Èb→ "cf fu" c" o c i p g v" v q" c
rncpgv." y j k e j" kpEwgpegu" v j g" u j k r" u" o q x g o g p v 0" V q" r n c e g" c" o c i p g v" r n c { g t u" j c x g
v q" n q e m" r q k p v u" v q" r t g x g p v" v j g o" h t q o" o q x k p i" g p g o { " u j k r u" c y c { " h t q o" v j g k t
j q o g" r n c p g v" y j g p" v j g { " c t g" c d q w v" v q" c v v c e m 0

J q y g x g t." v j g" h w p e v k q p" f q g u" p q v" e j g e m" k h" v j g" Ž*→á^æ\øä "ku" q y p g f" d { " v j g
Žæ↑*↔ää 0" V j k u" o g c p u" v j c v" r n c { g t u" e c p" r n c e g" c" o c i p g v" q p" c p" g p g o { " r n c p g v
y j k n g" q d v c k p k p i" c p f" n q e m k p i" r q k p v u" k p" v j g k t" q y p" g o r k t g 0

Rnc { gtu" y knn" r q v g p v k c n n { " d g" c d n g" v q" c h h g e v" v j g" o q x g o g p v" q h" g p g o { " u j k r u" y k v j q w v
n q e m k p i" r q k p v u" k p" v j g" g p g o { " g o r k t g 0" C u" v j g" o q x g o g p v" q h" u j k r u" k u" j c p f n g f" q h h /
e j c k p." k v" k u" w p e g t v c k p" k h" k v" k u" e j g e m g f" v j c v" v j g" r n c p g v" k u" q y p g f" d { " v j g" g o r k t g" h q t
v j g" o c i p g v" v q" j c x g" c p" g h h g e v." y j k e j" k u" y j { " v j g" k o r c e v" q h" v j g" k u u w g" k u
e q p u k f g t g f" \$ O g f k w o \$ 0

Kp" e c u g" v j g" q h h / e j c k p" k p h t c u v t w e v w t g" e j g e m u" v j c v" v j g" r n c p g v" k u" q y p g f" d { " v j g
g o r k t g." r n c { g t u" y knn" u v k n n" d g" c d n g" v q" r n c e g" c" o c i p g v" q p" c p" g p g o { " r n c p g v" v j c v
v j g { " g z r g e v" v q" e q p s w g t." u q" v j c v" v j g" o c i p g v" u v c t v u" c h h g e v k p i" v j g" o q x g o g p v" q h
u j k r u" c u" u q q p" c u" v j g { " v c m g" q x g t" v j g" r n c p g v 0" V j g t g" o k i j v" d g" k p e g p v k x g u" h q t
r n c e k p i" v j g" o c i p g v" d g h q t g" q y p k p i" v j g" r n c p g v" k h" k v" k u" g z r g e v g f" v j c v" v j g" r t k e g" q h
v j g" q x g t t k f g" y knn" k p e t g c u g" k p" v j g" h w v w t g 0

Tgeq o o g p f c v k q p u

à | ^ ^ \ ↔ ~ ^ Á * → á ´ æ R á & ^ æ \ Ç
ĚÁÁÁÓÓ↑*↔ääæŽæ↑*↔ääæĚ
ÁÁÁÁâ | \ æ b Ğ G Á Ž * → á ^ æ \ ø ä Ě
ÁÁÁÁ | ↔ ^ \ G I N Á \ | ā ^ Ğ | ā á \ ↔ ~ ^
ĚÁDÁ* | ā → ´ Á * á] ā ā → æ Á Ž ~ ^ →] S ~ \ Ō á ↑ æ Š { æ ā Á Ž ~ \ Ğ æ ā æ ā \ æ ā Ç Ž æ ↑ * ↔ ā æ D Á |
ĚÁDÁ* | ā → ´ Á * á] ā ā → æ Á Ž ~ ^ →] S ~ \ Ō á ↑ æ Š { æ ā Á |
ĚÁÁÁŠ → á ^ æ \ Ğ á \ á Á ↑ æ ↑ ~ ā] Á * → á ^ æ \ Ğ á \ á Á K Á Š → á ^ æ \ Ě & æ \ Ç Ž * → á ^ æ \ ø ä D Ě
ĚÁÁÁÓÓ↑*↔ääæŽæ↑*↔ääæÁKÁ*→á^æ\Ğá\áĚæ↑*↔ääæøäĚ
ĚÁÁÁāæ@ | ↔ ā æ Ç Ž æ ↑ * ↔ ā æ Á Á K Á Ó Ó ↑ * ↔ ā æ Ě S Ū Q Œ Ě Á Y Š { æ ā ā ↔ ā æ U] b \ æ ↑ Ÿ Á Š → á ^ æ \ Á ↔ b Á ^ ~ \ Á ~ } ^ æ ā Á D Ě

P q v g" v j c v" v j g" Ž^~\Ğæāæá\æā " o q f k l g t" k u" p q v" p g g f g f" d g e c w u g" y g" g p u w t g" v j c v" v j g
g o r k t g" q y p u" v j g" r n c p g v" c p f" f g h g c v g f" g o r k t g u" f q" p q v" q y p" c p { " r n c p g v 0

$$\begin{array}{l} \mathbb{E}\hat{A}\hat{A}\hat{A}\hat{A}\rightarrow\hat{a}\hat{A}\hat{C}\hat{x}^{\wedge}\hat{a}\hat{N}\rightarrow\sim'\leftarrow\hat{A}\hat{K}\hat{K}\hat{A}\in\hat{A}\bullet\bullet\hat{A}\hat{a}\rightarrow\sim'\leftarrow\hat{E}^{\wedge}\mid\uparrow\hat{a}\hat{x}\hat{a}\hat{A}\hat{J}\hat{K}\hat{A}\hat{x}^{\wedge}\hat{a}\hat{N}\rightarrow\sim'\leftarrow\hat{D}\hat{A}\mid \\ \mathbb{E}\hat{A}\hat{A}\hat{A}\hat{A}\rightarrow\hat{a}\hat{A}\hat{C}\hat{x}^{\wedge}\hat{a}\hat{N}\rightarrow\sim'\leftarrow\hat{A}\hat{K}\hat{K}\hat{A}\in\hat{A}\bullet\bullet\hat{A}\hat{a}\rightarrow\sim'\leftarrow\hat{E}^{\wedge}\mid\uparrow\hat{a}\hat{x}\hat{a}\hat{A}\hat{J}\hat{A}\hat{x}^{\wedge}\hat{a}\hat{N}\rightarrow\sim'\leftarrow\hat{D}\hat{A}\mid \end{array}$$

JN/24_ "Y tqp i "xcnwg"cuuk i pgf"vq"vjg

gvjÜrgpv "łgnf"qh"vjg" RncegCekfQxgttkfgNqi

vcdng

Vjg"Š{æãã↔äæN'↔äU]b\æ↑È*→á'æN'↔ä"hwpevkqp"tgi kuvgtu"vjg"fcvc"qh"vjg
rwtejcug"kp"vjg"Ş→á'æN'↔äŠ{æãã↔äæQ~&"qhh/ejckp"vcdng0"Vjg"æ\âU*æ^\"łgnf"ku
cuuk i pgf"vjg"xcnwg"tgwtpgf"d{"vjg"Ž↑b&Ůá→|æÇD"hwpevkqp."y jkej"ku"vjg"co qwpv
qh"gvjgt"ugpv"ykvj"vjg"vtcpucevkqp0"Jqygxgt."vjku"xcnwg"ecp"dg"jki jgt"vjcp"vjg
cevwcn"co qwpv"urgpv"d{"vjg"rnc{gt."uq"vjg"´~b\"ujqwnf"dg"wugf"kpuvgc f0

Ô↔↔æiĀŠ{æãã↔äæN'↔äU]b\æ↑Èb~→

ĞİĀĀĀĀŞ→á'æN'↔äŠ{æãã↔äæQ~&Èbæ\Ç

ĞİĀĀĀĀĀĀ* bæ| ä~ää^ä~↑Ó^\\↔\]ÇDÊ

ĞİĀĀĀĀĀĀŞ→á'æN'↔äŠ{æãã↔äæQ~&Ėá\áÇ|

HĖĀĀĀĀĀĀĀ*→á]æãðäİĀ*→á]æãðäÊ

HFĀĀĀĀĀĀĀ\|ä^İĀŮ|ä^È&æ\Ůá→|æÇDÊ

HGĀĀĀĀĀĀĀ*→á^æ\ðäİĀŽ*→á^æ\ðäÊ

HĞĀMLĀĀĀĀĀĀæ\âU*æ^İĀŽ↑b&Ůá→|æÇDÊ

HHĀĀĀĀĀĀĀĀ~{æãã↔äæO~|^İĀFÊ

HIĀĀĀĀĀĀĀĀ\↔↑æb\á↑*İĀdnqem0vkoguvcor

HIJĀĀĀĀĀĀcD

HİĀĀĀĀĀDİ

JN/25_ "RquvOcp cigt0tgeqtf*+"cnnq y u

umkr rkp i "tqwp fu

Kp"vjg"Şá]~|\Rá^á&æã"eqpvtcev."vjg"ãæ´~ãã"hwpevkqp"tgs wktgu"vjcv"vjg
Žã~|^äs|↑âæã"ku"itgcvg"vjcp"vjg"→áb\p~|^ä0"Vjku"o cmgu"kv"rquukdng"vq"umkr
tqwpfu"cpf"cnug"rtgxgpv"hwvwtg"ecnug"vq"vjg"hwpevkqp"kh"Žã~|^äs|↑âæã"ku"ugv"vq
\]*æÇ|↔^GIINDÊ↑á[]0

Y jkng"vjg"hwpevkqp"ku"ecnugf"d{"c"vtwuvgf"rctv{."kv"ku"tgeq o o gpfgf"vq"gpuwtg"vjcv
vjg"Žã~|^äs|↑âæã"ku"qpg"itgcvg"vjcp"vjg"→áb\p~|^ä"vq"rtgxgpv"umkr rkp i
tqwpfu"d{"o kuvcmg0"Kp"vjg"ecug"vjgtg"ku"c"pggf"vq"umkr"tqwpfu."kv"dg"ecp"dg"fqpg
gzrnkekv{"d{"ecnkpi"vjg"hwpevkqp"ykvj"Ž{↔~\~äbĀKĀYáääãæbbÇ€DŸ"cpf"Ž&á↔^b
KĀY€Ÿ0

ÁÁÁÁÁÁÁÁDÌ

Vjg"äæ\~^á\æUå↔æ→äÓÁ\æã"hwpevkqp"kp"vjg"Š{æãã↔äæUå↔æ→äÓÁ\æãU]b\æ↑
eqpvtcev"fqgu"pqv"ejgem"kh"vjg"rncpgv"ku"qypgf"d{"cp"go rktg"dghqtg"fgvqpcvki
vjg"ujkgnf"gcvgto"lkxgp"vjcv"vjg"qxgttkfg"equv"hqt"vjg"GGor ktg0PWNN"gor ktg"ku
2."kh"äæ\~^á\æUå↔æ→äÓÁ\æã"ku"ecnngf"y jgp"vjg"ewttgpn"ujkgnf"gcvgtrncpgv"ku"pqv
qypgf"d{"cp{"go rktg."vjg"rnc{gt"yknn"pqv"rc{"cp{"octikpcn"qxgttkfg"equv0

˘~^\\äá´\\ÄŠ{æãã↔äæUä↔æ→äÓá\\æäU]b\\æ↑Ä↔bÄÓ↑*↔äæbU]b\\æ↑Ä|
ÄÄä|˘´\\↔~^Ääæ\\~^ä\\æUä↔æ→äÓá\\æäÇDÄ*|ä↔˘´Ä*ä]äâ→æÄŽ~^→]S~\\Öá↑æŠ{æäÄ|
ÄÄÄÄä]\\æbÖGÄ*→ä]æäØäÄKÄääääæbbÜ~ØäÇŽ↑b&Uæ^äæäÇDDÏ
ÄÄÄÄŠ→ä^æ\\Äá\\äÄ↑æ↑~ä]Ä*→ä^æ\\Äá\\äÄKÄŠ→ä^æ\\È&æ\\ÇUä↔æ→äÓá\\æäÈ&æ\\O|ääæ^\\Š→ä^æ\\ÇDDÏ
ÄÄÄÄäæ@|↔äæ
ÄÄÇ*→ä^æ\\Äá\\äÈæ↑*↔äæØäÄÄKÄÓÓ↑*↔äæÈSÜQQÈÄÄYŠ{æäã↔äæU]b\\æ↑YÄŠ→ä^æ\\Ä↔bÄ^~\\Ä~}^æäÄDÏ

JN/29_"Kp"fgngicvfgf"ecnmugzeguu"gvjgt"ku
tghwpfgf"vq"vjg"fgngicvqt"kpuvgc f"qh"vjg
ecmngt

Vjg"Ó↑*↔äæbU]b\\æ↑"eqpvtcev"eqpvckpu"vjg"Žäæä|˘äŠ{æäb*æ^ä"hwpevkqp"y jkej
tghwpfu"vq"Ž↑b&Uæ^äæäÇD"vjg"gzeguu"gvjgt"ugpv"vq"vjg"eqpvtcev()

ä|˘´\\↔~^ÄŽäæä|˘äŠ{æäb*æ^äÇ|↔^\\GINÄŽ´~b\\DÄ↔^\\æä^ä→Ä|
ÄÄÄÄ|↔^\\GINÄ↑b&Üä→|æÄKÄŽ↑b&Üä→|æÇDÏ
ÄÄÄÄäæ@|↔äæÇ↑b&Üä→|æÄLKÄŽ´~b\\ÈÄYÓ↑*↔äæbU]b\\æ↑YÄØ^´~ääæ^\\Ä*ä]↑æ^\\ÄDÏ
ÄÄÄÄ↔äÄÇ↑b&Üä→|æÄLÄŽ´~b\\DÄ|
ÄÄÄÄÄÄØÜ~ä→äÇŽ}~ä→äÇDDE\\äá^bäæäNä→ä^´æÜ~NäääæbbÇ
ÄÄÄÄÄÄÄÖRŞØÞÓUŽSNRÓUŞNOÓŽØÆÈ
MLÄÄÄÄÄÄŽ↑b&Uæ^äæäÇDÈ
ÄÄÄÄÄÄÄ↑b&Üä→|æÄÈÄŽ´~b\\
ÄÄÄÄÄÄDÏ
ÄÄÄÄc
ÄÄc

Vjg"qxgttkfg"u{uvgo u"kpjgtkv"htqo"Ó↑*↔äæbU]b\\æ↑"cpf"ecnn"vjg
Žäæä|˘äŠ{æäb*æ^ä"hwpevkqp"kp"vjgkt"tgurgevxxg"hwpevkqpu"hqt"rwtejcukpi
qxgttkfgu()

I kxgp"vjcv"vjg"gzeguu"gvjgt"ugpv"d{"vjg"ecmngt"ku"tghwpfgf"vq"Ž↑b&Uæ^äæäÇD"."kp
vjg"ecug"qh"c"fgngicvfgf"ecmn"ykvj"Ü~ä→äÈ´á→Öä~↑ÇD"."vjg"gzeguu"gvjgt"ykm"dg
tghwpfgf"vq"vjg"fgngicvqt"kpuvgc f"qh"vjg"ecmngt."y jkej"oc{"pqv"dg"vjg"kpvgpf fgf
dgjcxkqt()

Qrvkqp"3<"Gphqteg"vjcv"vjg"gvjgt"ugpv"ku"gswn"vq"vjg"equv"qh"vjg"qxgttkfg()

Qrvkqp"4<"Cff"c"retco gvg"äæä|˘änäääæbb"vq"vjg"qxgttkfg"hwpevkqpu"cpf"ugpf
vjg"gzeguu"gvjgt"vq"vjcv"cf ftguu()

JN/2:_"Wugtu"ecppqv"ugnn"vjgkt"rqkpvu"kp"uq o g
uegpc tkqu

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