

Rw o r"Ugewtkv{ "Tgxkg y

Rcujqx"Cwfkv" I tqwr

Eqpfwevgf"d{<"wdgt o gpuej."HtcpmEcuving."Mqqngz."ecttqv u o w i ingt."fghuge.
fktma{

Qevqdtg"33vj"/"Qevqdtg"48vj

Eqpvgpvu

30"Cdqwv"Rcu j qx"Cwfkv" I tqwr	2
40"Fkuenck o gt	2
50"Kpvtqfwevkqp	2
60"Cdqwv"Rw o r	2
70"Tkum"Encuuk ł ecvkqp	3
7030"K o rcev	3
7040"Nkmgnkj qqf	3
7050"Cevkqp"tgs wktgf"hqt"ugxg tkv{"ngxgnu	4
80"Ugewtkv{"Cuuguu o gpv"Uw o o ct{	4
90"Gzgewv kxg"Uw o o ct{	5
:0"Hkpfkpiu	7
:030" Jki j"Hkpfkpiu	7
] J /23_"Htqp v/twppkpi"qp"vjg"oki tcvkqp"rtqeguu	7
:040"Ogfkwo"Hkpfkpiu	9
] O/23_"Kpuwh ł ekgpv"Vqmgp" J cpf nkpi"kp"dw{*+	9
:050"Nqy"Hkpfkpiu	12
] N/23_"Xktvwcn" Tgugtxgu" o wuv"gzeggf"qt" o cvej" Tgcn	12
Tgugtxgu	
] N/24_"Tqwpfkpi"fqyp"qh"hggukp"i gvahgg*+	14
] N/25_"Uvcvg" kpeqpukuv gpe{"fwg"vq"Uqncpc"tqnndcem	15
] N/26_"Fghcwnv" ykvj ftcy"cwvj qtkv{"y knn"ecwug"nquu"qh	16
hwpfu"fwtkpi"vjg"oki tcvkqp	
] N/27_"Rqqn" o ki tcvkqp"hgg"ku"wpfgt"eqpuvtckpgf	17
] N/28_"Okuukpi"rtqfwevkqp"rtqitc o "KF"Eqp ł i wtcvkqp	18
] N/29_"Cff"xcnkfcvkqp"ejgem"hqt"fwrnkecvg"cwvj qtkv{	18
] N/2:_ "Vqmgpu"ecp"dg"fqpcvgf"dghqtg" o ki tcvkqp"vq"tgfweg	19
vjg"nkuvkpi"rtkeg"chvgt" o ki tcvkqp	
] N/2;:_ "Okuukpi"ejgemgf"ctkvj o gyke"qrgtcvkqpu"qp"vjg"nkd	20
] N/32_"Dqpfkpi"ecp"dg"fgnc{gf"kpfg ł pkvgn{	22
] N/33_"Gzv gpf"ceeqwpv"ecp"dg"ecnngf"vq"wppgeguuctkn{	
y cuvg"pcvkxg"vqmgpu	

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 cxkpi" 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 qwi 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"qww"qp"Vy kvvgt" Brcujqxmtwo.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 km"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
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50"Kpvtq fwevkqp

C"vk o g/dqzgf"ugewtkv{"tgxkgy"qh"v j g"rwo r/hwplrw o r/eqpvtcevu/uqncpc"tgrqukvqt{
ycu"fqp g" d{"**Rcu j qx"Cw fkv" I tqwr.**"y kvj" c"hqewu"qp"v j g"ugewtkv{"curgevu"qh"v j g
cr nkecvkqp)u"u o ctv"eqpvtcevu"ko rng o gpvcvkqp0

60"Cdqwv"Rw o r

Rw o r"qp"Uqncpc"ku" c"rnevhqt o "hqt"ncwpej kpi"URN"eqkpu"v j cv"ecp"dg"vtcf gf"qp" c
dqp f k p i"ewtxg"y kv j qwv"pggf k p i"vq"rtqxkfg"kpvkcn"nkswkfkv{0"Qpeg"v j g"eqkp"tgcej gu" c
rctvkewnct" o ctmgv"ecr."nkswkfkv{"ku"fgrqukvgf"htq o"v j g"dqp f k p i"ewtxg"vq" Tc{ fkw o .
cpf"v j g"tgegkxgf"NR"vqmgpu"ctg"dwtpv0

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"hwpevkqpснкv{ "qh"vjg"rtqvqeqn"ku"chhgevgf0
- Nqy"/"ecp"ngcf"vq"сp{ "mkpf"qh"wpgzrgevgf"dgjcxkqt"ykvj"uqog"qh"vjg"rtqvqeqn)u hwpevkqpснкvgu"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 rctgf"vq"vjg"с o qwpv"qh hwpfu"vjcv"ecp"dg"uvqngp"qt"nquv0
- Ogfkwo"/"qpн{ "с"eqpfkvkqpсcmн{ "kpegpvкxk | gf"cvvcem"xgevqt."dwv"uvknn"tgncvкxgn{ nkmgн{0
- Nqy"/"jcu"vqq" o сp{ "qt"vqq"wpnkmgn{ "cuuw o rvkqpu"qt"tgswktgu"с"ukіpkłecpv"uvcmg"d{ vjg"cvvcemgt"ykvj"nkvnng"qt"pq"kpegpvкxg0

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

- Etkvkecn"/"Owuv"įz"cu"uqqp"cu"rquukdng"*kh"cntgcf{"fgrnq{gf+
- Jkij"/"Owuv"įz"*dghqtg"fgrnq{ o gpv"kh"pqv"cntgcf{"fgrnq{gf+
- Ogfkwo"/"Ujqwnf"įz
- Nqy"/"Eqwnf"įz

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

tgxkgy"eqo okv"jcu j"/"94ed;;9ec769fcded7:338h38c6h:::559g773g7

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Ueqrg

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

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- ↑↔&ãá\æ
- ãæá→~´žâ~^ä↔^&ž´ | ã{æ
- ãæá→~´ž&→~âá→
- | *ää\æž&→~âá→žá | \å~ã↔\]

90"Gzgewvkxg"Uw o o ct{

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ecttqv u o w i ingt."fghuge."fktma{"gpici gf"ykvj"Rw o r"vq"tgxkgy"Rw o r0"Kp"v jku"rgtkqf
qh"vk o g"c"vqvcn"qh"35"kuuwgu"y gtg"wpeqxgtgf0

Rtqvqeqn"Uw o o ct{

Rtqvqeqn"Pc o g	Rw o r
Tgrqukvqt{	jvru<11ikjwd0eq o l r w o r/hwpl r w o r/eqpvtcevu/uqncpc
Fcvg	Qevqdg t"33vj"/"Qevqdg t"48vj
Rtqvqeqn"V{rg	Dqp fkp i "Ewtxg"vqmgpucng

Hkp fkp i u"Eqwpv

Ugxg tkv{	C o qwpv
J k i j	3
O g f k w o	3
N q y	33
V q v c n"H k p f k p i u	35

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

KF	Vkvng	Ugxgtnv{	Uvcvwu
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]N/26_	Fghcwnv" ykvj ftcy "cwvj qtkv { " y k n n " e c w u g nquu " q h " h w p f u " f w t k p i " v j g " o k i t c v k q p	Nqy	Cempqyngfigf
]N/27_	Rqqn" o ki tcvkqp "hgg"ku"wpfgt eqpuvtckpgf	Nqy	Tguqnxgf
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]N/33_	Gzvgpf "ceeqpvp"ecp"dg"ecmngf"vq wppgeguuctkn { " y c u v g " p c v k x g " v q m g p u	Nqy	Tguqnxgf

: 0" Hkp fkp i u

:030" J k i j "H k p f k p i u

**]J/23_ "Htqp v/twppk p i "qp" v j g" o k i t c v k q p
 r t q e g u u**

Ugxgtkv{

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

Nkmg nk jqq f<" O gfkwo

F g u e t k r v k q p

Cp"cvvcemgt"ecp"htqp v / twp"v j g" o k i tcvkqp"vtcpucevkqp"d {"ugp f k p i "c"u o c n n" c o qwpv
qh"vqmgrp"vq"v j g" * ~ ~ ~ ~ ž á | \ â ~ ã ↔ \ j ž ↔ ^ ~ \ ž á ~ ' ~ | ^ \ . " y j k e j " e c p " e c w u g " v j g " c e e q w p v
enquwtg"vq"hckn"cpf"fktwrv"v j g"gpvktg" o k i tcvkqp" r t q e g u u 0

Tgngxcpv"eqfg<

ā|āž*~→žá|ā~ā↔\ž↑↔\žá''~|^žžā~↑žābb~↔ā\æāžā~ā↔^ž'|ā{æçb'\[DŁİ
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 ĀĀĀĀĀĀĀĀngvĀb~→žá↑~|^ĀKĀ'\[Ēá''~|^bĒā~ā↔^&ž'|ā{æĒāā~žb~→žāæbā{æbĀĒĀ*~→ž↑↔&āā↔~
 ĀĀĀĀā|^āž*~→žá|ā~ā↔\ž]ž]b~→žá''~|^žžā~↑žā~ā↔^&ž'|ā{æçb'\[ĒĀb~→žá↑~|^DŁİ
 ĀĀĀĀ'āā\æž*~→çb'\[ĒĀb~→žá↑~|^DŁİ
 ĀĀĀĀ'→~bæž\~←æ'žá''~|^ç
 ĀĀĀĀĀĀĀB'\[Ē
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 ĀĀĀĀDŁİ

V.j g"cvvcem"uegpctkq"ku"cu"hqnnq y u<

30"Cp"cvvcemgt"uwd o kvu"vj gkt"q y p"vtcpucev kqp"vq"ugpf" c"fwuv" c o qwpv"vq" c" rtg/
etgcvgf" *~→žá | \ǎ~ǎ↔\]ž↑↔^ \žá´´~ | ^\ 0

40"Kh"vjg"cvvcemgt)u"vtcpucevkqp"ku"rtqeguugf"dghqtg"vjg"oki"tcvkqp"vtcpucevkqp.
 *~~~→žá|\ǎ~ã⇔\]ž↑↔^žá'~|^\ "ykn"jcxg"c"ppq/|gtq"dcncpeg0

50"Y jgp"vjg"oki tcvkqp"vtcpucev kqp"gzgewvgu."vjg"qrgtcvkqp"y knn"hckn"dgecwug"vjg
ceeqwpv"jcu"c"pqp/|gtq"dcncpeg0

Tgeq o o gp f cvkqpu

K o r n g o g p v " D c n c p e g " E j g e m " c p f " U y g g r < " C v " v j g " d g i k p p k p i " q h " v j g " o k i t c v k q p
r t q e g u u . " e j g e m " v j g " d c n c p e g " q h " * ~ ~ → ž ā | \ â ~ ã ↔ \ j Ž ↑ ⇔ ^ \ ž ā ' ~ | ^ \ " c p f " u y g g r " c p {
w p g z r g e v g f " h w p f u " v q " c " f g u k i p c v g f " c f f t g u u 0 " H q t " g z c o r n g <

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ngvǞ| ^æ[ *æ\ǽăžâā→ǎ^˘ æĀKÁ\ [ Ēá' ~ | ^\bÊ~ →Žá | \ǎ~ǎ↔ ] Ž↑ ↔ \Žá' ~ | ^\Ēá↑ ~ | ^\İ  
khǞ| ^æ[ *æ\ǽăžâā→ǎ^˘ æĀLĀĖǞ|  
ĀĀĀĀ11"Vtcpuhtg"wpgzrgvgf"dcncpeg"vq"c"fɢukipcvgf"cfftguu  
ĀĀĀĀb| ææ*Ž\ ← æ^Ç^\ [ ĒǞ| ^æ[ *æ\ǽăžâā→ǎ^˘ æĒĀǎæb↔ & á\ æăžăăăăăæbbDĒİ  
C  
11"Rtqeggf"ykvj"okitcvkqp"rtqeguu
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:040" Ogfkwo "Hkpfkpiu

]O/23_"Kpuwhłekgpv"Vqmgp" J c p f n k p i "kp

dw{ * +

Ugxgtkv{

Ko rcev<"Ogfkwo

Nkmgkjqqf<"Ogfkwo

Fguetkrvkqp

Kp"vjg"â|l"hwpevkqp."vjg"wugt"urgekłgu"cp"á↑~|^\"qh"vqmgpu"vq"dw{"htqo"vjg
dqpfpki"ewtxg"d{"rc{kpi"UQN0"Jqygxgt."kh"vjg"tgswguvgf"á↑~|^\"gzeggfuvjg
cxckncdng"ãæā→ž\~←æ^žãæbæã{æb}."vjg"hwpevkqp"tgxgtvu"ykvj"cp"wpfgtEqy"gttqt0
Vjku"kuuwg"qeewtu"yjpg"vjg"hwpevkqp"cvvgorvu"vq"uwdvtcev"cp"á↑~|^\"itgcvg
vjcp"vjg"cxckncdng"vqmgpu"htqo"vjg"ãæā→ž\~←æ^žãæbæã{æb}0"Cu"c"tguwnv."xcnkf
uycru"vjcv"eqwnf"rctvkenn{"hwnłnn"vjg"wugt)u"tgswguv"ctg"rtgxgpvgf."cpf"vjg
dqpfpki"ewtxg"ku"pqv"octmgf"cu"eqorngvgf0

Hqt"gzcorng."kp"vjg"â|l"hwpevkqp<

rw d Ā h p Ā Ā |] Ć ' \ [ĩ Ā E q p v g z v J Ñ |] L Ê Ā ā ~ | ^ \ ĩ Ā | W H Ê Ā ā [Ž b ~ → Ž ' ~ b \ ĩ Ā | J H D Ā Ē L Ā Ħ æ b | → \ J Ć D L Ā |
Ā Ā Ā Ā 1 1 " e c n e w n c v g " v j g " u q n " e q u v " c p f " h g g
Ā Ā Ā Ā n g v Ā b ~ → Ž ' ~ b \ Ā K Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê ā |] Ž @ | ~ \ æ Ć ā ↑ ~ | ^ \ Ā c u Ā | F G Î D Ì
Ā Ā Ā Ā n g v Ā ā æ ā Ā K Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā ~ ā ā → Ê & æ \ Ž ā æ æ Ć b ~ → Ž ' ~ b \ D Ì

Ā Ā Ā Ā 1 1 " e j g e m " v j c v " v j g " u q n " e q u v " k u " y k v j k p " v j g " u n k r r c i g " v q n g t c p e g
Ā Ā Ā Ā ā æ @ | ↔ ā æ Ā Ć
Ā Ā Ā Ā Ā Ā Ā b ~ → Ž ' ~ b \ Ā Ê Ā ā æ ā Ā J K Ā ↑ ā [Ž b ~ → Ž ' ~ b \ Ê
Ā Ā Ā Ā Ā Ā Ā \$ | ↑ * Ō ā ā ~ ā i i Ů ~ ~ R | ' ā U ~ → Ħ æ @ | ↔ ā æ ā
Ā Ā Ā Ā D Ì
Ā Ā Ā Ā ā æ @ | ↔ ā æ Ž ← æ] b Ž æ @ Ā Ć
Ā Ā Ā Ā Ā Ā Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā b b ~ ' ↔ ā \ æ ā Ž ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê ↑ ↔ ^ \ Ê
Ā Ā Ā Ā Ā Ā Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ↑ ↔ ^ \ Ê ← æ] Ć D Ê
Ā Ā Ā Ā Ā Ā Ā \$ | ↑ * Ō ā ā ~ ā i i R ↔ ^ \ Ć ~ æ b S ~ \ R ā \ ' ā Ñ ~ ^ ā ↔ ^ & Ō | ā { æ
Ā Ā Ā Ā D Ì
Ā Ā Ā Ā ā æ @ | ↔ ā æ Ā Ć
Ā Ā Ā Ā Ā Ā Ā Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê ' ~ ↑ * → æ \ æ Ê
Ā Ā Ā Ā Ā Ā Ā \$ | ↑ * Ō ā ā ~ ā i i Ñ ~ ^ ā ↔ ^ & Ō | ā { æ Ō ~ ↑ * → æ \ æ
Ā Ā Ā Ā D Ì

Ā Ā Ā Ā 1 1 " w r f c v g " v j g " d q p f k p i " e w t x g " r c t c o g v g t u
Ā Ā Ā Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê { ↔ ā \ | ā → Ž \ ~ ← æ ^ Ž ā æ b æ ā { æ b Ā Ê K Ā ā ↑ ~ | ^ \ ĩ
Ā Ā Ā Ā Ê Ê L Ā e v z Ê ā ' ' ~ | ^ \ b Ê ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê ā æ ā → Ž \ ~ ← æ ^ Ž ā æ b æ ā { æ b Ā Ê K Ā ā ↑ ~ | ^ \ ĩ Ā Ā 1 1 " T g x g t v u " k h "
Ā Ā Ā Ā 1 1 " b c o q w p v b " k u " i t g c v g t " v j c p " t g u g t x g u
Ā Ā Ā Ā ' \ [Ê ā ' ' ~ | ^ \ b Ê ā ~ ^ ā ↔ ^ & Ž ' | ā { æ Ê { ↔ ā \ | ā → Ž b ~ → Ž ā æ b æ ā { æ b Ā Ê K Ā b ~ → Ž ' ~ b \ ĩ

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tgo ckpkpi"vqmgpu"vq"vjg"wugt"cpf"o ctmkpi"vjg"dqpfkpi"ewtxg"cu"eqo rngvg0

K o r c e v

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gzeggfu"vjg"tgo ckpkpi"vqmgpu"kp"vjg"āæā→Ž\~←æ^Žāæbæā{æb}0"Wugtu"oc{"dg
wpcdng"vq"dw{"vqmgpu"gxgp"vjqwi j" c" rqtvkqp"qh"vjgkt"tgs wguv"eqwn f"dg"hwn ħ nng f0
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Tgeq o o gp f cvkqp

Oqfkh{"vjg"ā|j} "hwpevkqp"vq"jcpfng"vjg"ecug"y jgtg"vjg"tgs wguvgf"ā↑~|^\
gzeggfu"vjg"cxckncdng"vqmgpu"kp"vjg"āæā→Ž\~←æ^Žāæbæā{æb}0"Kh"vjg"tgs wguvgf
ā↑~|^\"ku"itgcvg t."vjg"hwpevkqp"ujqwn f"ugnn"vjg"tgo ckpkpi"vqmgpu"kp"vjg"tgugt xg
vq"vjg"wugt."wrfcvg"vjg"dqpfkpi"ewtxg."cpf"o ctm"kv"cu"eqo rngvg0"Vjku"yknn
rtgxgp"vjg"wpfgtEqy"gttqt"cpf"cmnqy"xcnk f"vtcpucev kqu"vq"dg"rtqeguug f0

Uw i iguvgf" Hkz<

*|âĀâ^Āâ|]Ç´\[\iĀO~^\\æ[\JÑ|]LÊĀá↑~|^\\iĀ|WĤÊĀ↑á[Žb~→Ž´~b\\iĀ|WĤDĀĚLĀĤæb|→\JÇDLĀ|

ÉĀ

ÉĀĀĀĀĀĐĐĀOâæ´←Ā↔âĀ\âæĀãæ@|æb\æăĀá↑~|^\\Āæ[´ææăbĀ\âæĀăæ↑ă↔↔^&Ā\~←æ^bĀ↔^Ā\âæĀăæá→Āăæbæă{
ÉĀĀĀĀ↔âĀá↑~|^\\ĀLĀ´\[\Èá´´~|^\\bĚâ~^ă↔^&Ž´|ă{æĚăæá→Ž\~←æ^Žăæbæă{æbĀ|

ÉĀ

ÉĀĀĀĀĀĀĀĀĀá↑~|^\\ĀKĀ´\[\Èá´´~|^\\bĚâ~^ă↔^&Ž´|ă{æĚăæá→Ž\~←æ^Žăæbæă{æbĬĀĀĐĐĀNă↓|b\\Ā\~Ābæ→Ā
ÉĀ

ÉĀĀĀĀĀĀĀĀĀ´\[\Èá´´~|^\\bĚâ~^ă↔^&Ž´|ă{æĚ´~↑*→æ\æĀKĀ\ă|æĬĀĀĐĐĀRăă←Ā\âæĀâ~^ă↔^&Ā´|ă{æĀábĀ´~
ÉĀĀĀĀĀc

ĀĀĀĀĐĐĀŚă~´ææăĀ}↔\ăĀ\âæĀăæ&|→ăăĀĀ|]Ā→~&↔´

ĀĀĀĀ→æ\Āb~→Ž´~b\ĀKĀ´\[\Èá´´~|^\\bĚâ~^ă↔^&Ž´|ă{æĚâ|]Ž@|~\æÇá↑~|^\\ĀábĀ|FGÎDÎ

ĀĀĀĀ→æ\ĀâææĀKĀ´\[\Èá´´~|^\\bĚ&→~âă→Ě&æ\ŽâææÇb~→Ž´~b\DÎ

ĀĀĀĀĐĐĀOâæ´←Āb↔**ă&æĀ\~→æăă^´æĀă^ăĀ~\âæăĀ´~^ă↔\↔~^bĚĚĚ

c

:050"Nq y "Hkp fkp i u

JN/23_"Xktvwcn" Tgugtxgu" o wuv"gzeggf"qt o cvej" Tgcn" Tgugtxgu

Fguetkrvkqp

Vjg"dqpfkpi"ewtxg)u"ugnn"nqike"tgnkgu"qp"xktvwcn"tgugtxgu"hqt"ecnewncvkqpu0
Jqygxgt."kh"vjg"tgc"vqmgrp"tgugtxgu"hcnn"dgnqy"vjg"xktvwcn"vqmgrp"tgugtxgu.
wpfgtEqy"ecp"qeewt."rtgxgpvki"vjg"eqo rnyvg"oki tcvkqp"qh"vjg"rqqn0"Ewttgpnv{.
vjg"nqike"fqgu"pqv"ghqtegvjg"eqpfkvkqp"vjcv"vjg" {↔ǎ\ | á→ž\ ~←æ^žǎæbǎǎ {æb
o wuv"dg"i tgcvg"vjcp"qt"gswn"vq"vjg" ǎæá→ž\ ~←æ^žǎæbǎǎ {æb 0"Vjku"ecp"ngcf"vq"c
FqU"*Fgpkcn"qh"Ugtxkeg+"kuuwg"y jgtg"vjg"oki tcvkqp"qh"vjg"dqpfkpi"ewtxg"ku
dnqemgf"kpfgłpkvgn{."cu"vjg" ǎæá→ž\ ~←æ^žǎæbǎǎ {æb "oc{"pgxgt"tgcej"|gtq0

Kp"vjg" ǎ |]ž@ | ~\æ "hwpevkqp."vjg"xktvwcn"tgugtxgu"ctg"wugf"kp"ecnewncvkqpu<

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rwDǎhpǎǎ | ]ž@ | ~\æÇBǎǎ→ǎĖǎǎ↑~ | ^\iǎ | FGİDǎĖLǎ | JHǎ |  
ǎǎǎǎǎǎǎǎ {↔ǎ\ | á→žb~→žǎæbǎǎ {æbǎKǎǎǎ→ǎĖ {↔ǎ\ | á→žb~→žǎæbǎǎ {æbǎcuǎ | FGİİ  
ǎǎǎǎǎǎǎǎ {↔ǎ\ | á→ž\ ~←æ^žǎæbǎǎ {æbǎKǎǎǎ→ǎĖ {↔ǎ\ | á→ž\ ~←æ^žǎæbǎǎ {æbǎcuǎ | FGİİ  
ǎǎǎǎǎǎǎǎǎb~→ž' ~b\iǎ | JHǎK  
ǎǎǎǎǎǎǎǎǎÇǎǎ↑~ | ^\ǎĖǎ {↔ǎ\ | á→žb~→žǎæbǎǎ {æbDǎǎǎ  
ǎǎǎǎǎǎǎǎǎÇ {↔ǎ\ | á→ž\ ~←æ^žǎæbǎǎ {æbǎĖǎǎǎ↑~ | ^\DDǎcuǎ | JHİ  
  
ǎǎǎǎǎb~→ž' ~b\ǎĖǎǎǎǎǎ11"cnyc{u"tqwpf"wr  
c
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Y jgp"vqmgpu"ctg"uqnf."dqvj"tgc"cpf"xktvwcn"tgugtxgu"ctg"wr fcvgf<

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'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖ {↔ǎ\ | á→ž\ ~←æ^žǎæbǎǎ {æbǎĖKǎǎǎ↑~ | ^\i  
'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖǎǎǎ→ž\ ~←æ^žǎæbǎǎ {æbǎĖKǎǎǎ↑~ | ^\i  
'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖ {↔ǎ\ | á→žb~→žǎæbǎǎ {æbǎĖKǎǎb~→ž' ~b\i  
'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖǎǎǎ→žb~→žǎæbǎǎ {æbǎĖKǎǎb~→ž' ~b\i
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Kh"vjg" ǎæá→ž\ ~←æ^žǎæbǎǎ {æb "fq"pqv"tgcej"|gtq."vjg"dqpfkpi"ewtxg"ecppqv
eqo rnyvg"oki tcvkqp."y jkej"ecp"tguwnv"kp"vjg"hqnnqykpi"kuuwg<

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khǎ'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖǎǎǎ→ž\ ~←æ^žǎæbǎǎ {æbǎKKǎǎǎ |  
ǎǎǎǎǎ'\ [Ėǎ' '~ | ^\bĖǎ~^ǎ↔^&ž' | ǎ {æĖ' ~↑*→æ\ǎKǎǎǎvtwgİ  
c
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D{"gphqtekp i"vjgug"ejcp i gu."vjg"dqpfkpi"ewtxg"y knn"dg"cdng"vq"i tceghwnn{
jcpfng"rqqn"oki tcvkqp"cpf"rtgxgpv"wpfgtEq y"gttqtu."gpuwtkpi"nkswkfkv{"ecp"dg
hwnn{"ykvjftcy p"cpf"uy cr rgf0

Fguetkrvkqp

Vjg"&æ\Žàææ"hwpevkqp"ku"tgurqpukdng"hqt"ecnewncvkpi"vjg"rtqvdeqn"hggu"dcugf"qp"crgtegpvcig"qh"vjg"vtcpucevkqp"coqwpv0"Kv"ewttgpnv{"tqwpfu"fqyp"vjg"hggu."yjkkej"ecp"tguwnv"kp"uegpctkqu"y jgtg"vjg"hggu"ku"tgfwegf"vq"|gtq."gurgekcn{"hqt"uocnn"vtcpucevkqpu0"Vjku"ecp"ecwug"vjg"rtqvdeqn"vq"nqug"rqvgpvkc"tgxgpwg"htqo"hggu0

Vjg"tqwpfkip"fqyp"kuuwg"ku"gxkfgpv"kp"vjg"&æ\Žàææ"hwpevkqp."cu"ujqyp"dgnqy<

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rwDÁhpÁ&æ\ŽàææÇBbæ→àÊÁá↑~| ^\íÁ | IJHDÁĚLÁ | IJHÁ |  
ÁÁÁÁngvÁàææÁKÁČá↑~| ^\ÁcuÁ | FGÎÁĚÁbæ→àÈàææŽááb↔bŽ*~↔^bÁcuÁ | FGÎDÁDÁFežēēēī  
ÁÁÁÁàææÁcuÁ | IJH  
c
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Vjku"hwpevkqp"ku"wugf"kp"dqvj"vjg"â |]"cpf"bæ→"hwpevkqpu"vq"ecnewncvg"vjg"hggu"fgfwegf"htqo"vjg"UQN"coqwpv."dwv"vjg"ewttgpnv"ko rngo gpcvkqp"ecp"ngcf"vq"cnquu"qh"hggu."cu"kv"tqwpfu"fqyp"kpuvpcf"qh"tqwpfkip"wr0

Tqwpfkip"vjg"hggu"fqyp."gurgekcn{"hqt"uocnn"coqwpvu."ecp"tguwnv"kp"cu"ipkŧecpv"nquu"qh"hggu"hqt"vjg"rtqvdeqn"qxgt"vkog0"Hqt"uocnn"gt"vtcpucevkqpu."vjg"hggu"eqwnf"ghhgevkg"{"dgeqog"|gtq."yjkkej"tgfwegu"vjg"rtqvdeqn"u"kpeqog0"Qxgt"ocp{"vtcpucevkqpu."vjku"kuuwg"ceewo wncvgu"cpf"ko rcev"vjg"rtqvdeqn"u"nqpi/vgtouuwvckpcdknv{0

Tgeqo o gpfcvkqp

Vq"gpuwtg"vjcv"vjg"rtqvdeqn"tgegkxgu"vjg"eqttgev"hggu."vjg"&æ\Žàææ"hwpevkqp"ujqwnf"tqwpf"vjg"hggu"wr"kpuvpcf"qh"fqyp0"Vjku"i wtcpvggu"vjcv"gxgp"kp"ecugu"y jgtg"vjg"hggu"ecnewncvkqp"tguwnv"kp"chtcvkqpcn"xcnwg."kv"ku"tqwpfgf"wr"vq"vjg"pgctguv"kpvgigt"vq"rtgxgpv"hggu"nquu0

Uwi iguvgf"Hkz<

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* | áÁà^Á&æ\ŽàææÇBbæ→àÊÁá↑~| ^\íÁ | IJHDÁĚLÁ | IJHÁ |  
ÁÁÁÁ→æ\ÁàææÁKÁ  
ÁÁÁÁĐČá↑~| ^\ÁábÁ | FGÎÁĚÁbæ→àÈàææŽááb↔bŽ*~↔^bÁábÁ | FGÎÁĚÁİŽİİİİDÁDÁFežēēēīÁÁĐDÁĤ~| ^áÁ | *Á  
ÁÁÁÁàææÁábÁ | IJH  
c
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D{"cfkip"İŽİİİİ"dghqtg"fkxkukqp."vjg"hggu"ecnewncvkqp"ykn"cnyc{u"tqwpf"wr."gpuwtkip"vjcv"vjg"rtqvdeqn"fqgu"pqv"nqug"tgxgpwg"fwg"vq"uocnn"qt"htcevkqpcn"hggu

JN/25_"Uvcvg"kp eqpukuv gpe{ "fwg"vq"Uqncpc tqndcem

Vyq"etkvekcn"hwpevkqpu"kp"vjg"rtqvqeqn"ctg"xwnpgtcdng"vq"uvcvg"kp eqpukuv gpekgu"kp
vjg"gxgpn"qh"Uqncpc"tqndcem<

- **Ykvjftcy"Rcwug"Ogejcpku o**<"Kh"vjg"rtqvqeqn"wugu"rcwug"ogejcpku o"vq
rtgxgpn"ykvjftcy cnu"fwg"vq"cfvgvgevgf"ugewtkv{"vjtgcv."c"Uqncpc"tqndcem
eqwnf"tgxgtv"vjg"rcwugf"uvcvg"dcem"vq"cevkxg0"Vjku"yqwnf"gzrqug"vjg
rtqvqeqn"vq"vjg"xgt{"ugewtkv{"vjtgcv"kv"ycu"cvgo rvpki"vq"okvki cvg0
- **Ugvvki"Eqpl i"Rctc ogygtu**<"Kp"vjg"gxgpn"qh"Uqncpc"tqndcem."inqdcn
eqpl i wtcvkqp"rctc ogygtu"eqwnf"dgeq o g"qwfvcvgf0"Vjku"yqwnf"rqug"cu
kikp l ecpv"tkum"vq"vjg"u{uvgo."cu"vjg"rtqvqeqn"eqwnf"qrgtcvg"ykvj"qnf.
kpxcnkf"ugvvkpi u."rvvgpvkcnn{"ngcfkpi"vq"onhwpevkqp"qt"xwnpgtcdknkvkgu0

Vq"okvki cvg"vjg"tkumu"qh"Uqncpc"tqndcemu."k"o rng o gpn"vjg"hqnnq ykpi"uvtcvgi kgu<

- 30" **Fgvgev"Qwvfcvgf"Eqpl i wtcvkqpu**<"Wvknk | g"vjg"Qáb\pæb\áã\U→~\"u{uxct"vq
ejgem"y jgvjgt"vjg"inqdcn"eqpl i wtcvkqp"jcu"dggn"chhgevgf"d{"c"tqndcem0"Kh
vjg"eqpl i wtcvkqp"ku"qwfvcvgf."vjg"rtqvqeqn"ujqwnf"cwvq o cvkecn {"rcwug"vq
rtgxgpn"hwvjgt"cevkqpu"wpvkn"cp"cf o kp"kpvgtxgpgu0
- 40" **Cff"ncuvawrfcvgfaunqv" Hkgnf**<"Kpenwfg"c"→áb\ž | *ää\æäžb→~\"lgnf"kp"vjg
dqpfpki"ewtxg"uvcvg"vq"vtcem"y jgp"vjg"eqpl i wtcvkqp"ycu"ncuv"wr fcvgf0
- 50" **Qwvfcvgf"Eqpl i wtcvkqp"Ejgem" Hwpevkqp**<"K"o rng o gpn"c"hwpevkqp"vq
xgtkh {"kh"vjg"inqdcn"eqpl i wtcvkqp"ku"qwfvcvgf0"Kh"kv"ku."vcmg"pgeguuct {
ogcuwtgu"vq"rtgxgpn"hwvjgt"qrgtcvkqpu"wpvkn"vjg"eqpl i wtcvkqp"ku"wr fcvgf0

Jgtg"ku"cp"gzco rng"hwpevkqp"vq"ejgem"hqf"vjg"qwfvcvgf"inqdcn"uvcvg<

hpÁ↔bž´~^â↔&ž~| \ää\æäÇ&→~ââ→íÁBInqdcnDÄĖLÁpæb|→\Jâ~→LÁ|
ÁÁÁÁngvÁ→áb\žāæb\āā\žb→~\ÁKÁQáb\pæb\āā\U→~\íí&æ\ÇDEĪ
ÁÁÁÁŠ<Ç&→~ââ→Ē→áb\ž | *ää\æäžb→~\ÁJKÁ→áb\žāæb\āā\žb→~\Ē→áb\žāæb\āā\žb→~\D
c

IN/26_ "Fghcwnv" ykvjftcy "cwvjqt kv{ "y knn
ecwug"nquu"qh"hw p fu"fwtkpi"vjg" okitcvkqp

Vjg"inqdcn" }↔\ääää}Žá | \â~ã↔\] "kp"vjg"dqpfkpi"ewtxg"ku"tгурqpukdng"hqt
o cpcikpi"nkswkfkv{"fwtkpi"vjg"okitcvkqp"rtqeguu."kpenwfkpi"tgegkxkpi"okitcvkqp
hggu"cpf"ykvjftcykpi"nkswkfkv{0"Vjku"cwvjqtqv{"ecp"gkvjgt"dg"c"xcnkf"rwdnke"mg{
qt"vjg"fghcwnv"rwdnke"mg{"*Ş | â←æ] î î ä ä ä | →\ÇÐ +0

kp"vjg"}↔\ääää}"hwpevkqp."kh"vjg"}↔\ääää}žá|\ă~ă↔\}"ku"ugv"vq"vjg"fghcwnv
rwdnke"mg{"vjg"eqfg"xgkklgu"vjg"wugtùu"rwdnke"mg{"cickpuv"c"eqpuvcpv"mg{
*~^â↔&žæää\|ǣiï↔\ääää}žá|\ă~ă↔\|iïø<

khÁ´\ [Èá´´~| ^\bÊ&→~âá→È} ↔\ áääá } Žá | \ á~ã ↔\] ÁKKÁŠ | â←æ | i i äæää | →\ ÇDĀ |
 ÁÁÁÁ äæ@ | ↔ äæŽ←æ | bŽæ@ÂÇ
 ÁÁÁÁÁÁÁÁ´´~ ^â ↔ Ž äæá \ | äæ i i } ↔\ áääá } Žá | \ á~ã ↔\] i i ØÊÊ
 ÁÁÁÁÁÁÁÁ´´\ [Èá´´~| ^\bÊ | bæãÈ←æ | ÇDĖ
 ÁÁÁÁÁÁÁÁŠ | †*Óää~ä i i S~\N | \ á~ã ↔´æä
 ÁÁÁÁDĪ
 cÁgnugÁ |
 ÁÁÁÁ äæ@ | ↔ äæŽ←æ | bŽæ@ÂÇ
 ÁÁÁÁÁÁÁÁ´´\ [Èá´´~| ^\bÊ | bæãÈ←æ | ÇDĖ
 ÁÁÁÁÁÁÁÁ´´\ [Èá´´~| ^\bÊ&→~âá→È} ↔\ áääá } Žá | \ á~ã ↔\] Ê
 ÁÁÁÁÁÁÁÁŠ | †*Óää~ä i i S~\N | \ á~ã ↔´æä
 ÁÁÁÁDĪ

c

J q y g x g t . " k p " v j g " ↑↔&ãä\æ " h w p e v k q p . " v j k u " e c u g " k u " p q v " j c p f n g f 0 " V j g " o k i t c v k q p
r t q e g u u " k u " r g t o k u k q p n g u u . " c p f " v j g " }↔\ääää}Žá|\ă~ă↔\] " k u " w u g f " f k t g e v n {
y k v j q w v " x c n k f c v k q p 0 " K h " v j g " }↔\ääää}Žá|\ă~ă↔\] " k u " v j g " f g h c w n v " r w d n k e " m g { . " k v " y k n n
d g " w u g f " v q " t g e g k x g " v j g " o k i t c v k q p " h g g u " c p f " r q q n " c w v j q t k v {) u " n c o r q t v u " f w t k p i " v j g
o k i t c v k q p <

$$\begin{array}{l} \backslash \tilde{a} \tilde{a} \wedge b \tilde{a} \tilde{e} \tilde{a} \tilde{z} \tilde{a} \tilde{a} \rightarrow \tilde{z} * \sim \rightarrow \tilde{z} \tilde{a} \mid \backslash \tilde{a} \sim \tilde{a} \leftrightarrow \mid \zeta \\ \tilde{A} \tilde{A} \tilde{A} \tilde{A} \tilde{B} \backslash [\hat{E} \\ \tilde{A} \tilde{A} \tilde{A} \tilde{A} \backslash [\hat{E} \tilde{a} \tilde{a} \tilde{a} \tilde{a} \mid \wedge \tilde{b} \hat{E}] \leftrightarrow \tilde{a} \tilde{a} \tilde{a} \tilde{a} \mid \tilde{z} \tilde{a} \mid \backslash \tilde{a} \sim \tilde{a} \leftrightarrow \mid \hat{E} \sim \tilde{z} \tilde{a} \tilde{a} \tilde{a} \tilde{a} \mid \wedge \tilde{z} \leftrightarrow \tilde{a} \sim \zeta \hat{D} \hat{E} \\ \tilde{A} \tilde{A} \tilde{A} \tilde{A} \backslash [\hat{E} \tilde{a} \tilde{a} \tilde{a} \tilde{a} \mid \wedge \tilde{b} \hat{E} * \sim \rightarrow \tilde{z} \tilde{a} \mid \backslash \tilde{a} \sim \tilde{a} \leftrightarrow \mid \hat{E} \rightarrow \tilde{a} \uparrow * \sim \tilde{a} \mid \zeta \hat{D} \hat{E} \\ D_E \hat{I} \end{array}$$
[illegible]

Kh"vjg"i nqdcn" }⇔\åääää}žá|\å~ä↔\]"ku"ugv"vq"vjg"fghcwnv"rwdnke"mg{."kv"y knn"ngcf"vq
c"nquu"qh"o ki tcvkqp"hggu"cpf"vjg"tgpv"htq o"vjg"rqqn"cwvj qtkv{)u"ceeqwpvu."cu"vjg

fghcwnv"rwdnke"mg{"yqwnf"tgegkxg"vjgug"hwpfu0

Ko rngo gpv"vjg"ucog"xcnkfcvkqp"nqike"hqt"vjg"}↔\ääää}žá|\å~ã↔\]"kp"vjg
↑↔&ää\æ"hwpevkqp"cu"ku"fqpg"kp"vjg"}↔\ääää}"hwpevkqp0"Gpuwtg"vjcv"vjg
}↔\ääää}žá|\å~ã↔\]"ku"eqttgevn{"ugv"dghqtg"vjg"okitcvkqp"rtqeggfu0

Cff"vjg"hqmnqykp"ieqf"vq"jcpfng"ecugu"y jgtg"vjg"}↔\ääää}žá|\å~ã↔\]"ku"ugv
vq"vjg"fghcwnv"rwdnke"mg{<

khÁ´\ [Èá´´~|^bÈ&→~âá→È}↔\ääää}žá|\å~ã↔\]Ā
ĀĀĀĀĀĀĀĀKĀ\$|â←æ]iīāæāá|→ÇDĀ|
ĀĀĀĀ}↔\ääää}žá|\å~ã↔\]ĀKĀ´~^â↔žāæá\|āæiī}↔\ääää}žá|\å~ã↔\]iīøĖī
c

Vjku"gpuwtgu"vjcv"vjg"eqttgev"cwvjqtkv{"ku"wugf"fwtkpi"vjg"okitcvkqp"rtqeguu"cpf
rtgxgpvu"rqvgpvkcn"nquu"qh"hwpfu0

JN/27_ "Rqqn" okitcvkqp"hgg"ku"wpfgt eqpuvtckpgf

Kp"vjg"kp/ueqrg"fkh"vq"}↔âÈāb"vjg"hqmnqykp"ieqpuvtckpv"ycu"cffgf"vq
*~→ž↑↔&ää\↔~^žāææ<

āæ@|↔āæž&\ĀÇ
Ā*~→ž↑↔&ää\↔~^žāææĖ
Ā´āæá\~āžāææĖ
Ā\$|↑*Ōāā~āiīŌāæá\~āŌāæUā~|→āÑæQæbbŪāá^\$~→R↔&ää\↔~^Ōāæ
Dī

Vjku"ku"ko rqtvcpv"fwtkpi"okitcvkqp"cu"vjg"nc o rqtvu"vtcpuhgttgf"vq"vjg"rqqn
cwvjqtkv{"ceeqpvp"eqxgt"vjg"etgcvqt"hgg"vjcv"ku"ugpv"vq"vjg"etgcvqt0"Jqy gxgt.
vgejpkecn{"vjku"ku"wpfgt/eqpuvtckpgf"ukpeg"}*~→ž↑↔&ää\↔~^žāææĀĖ
´āæá\~āžāææ"jcu"vq"eqxgt"vjg"tgpv"gzgo rvkqp"nc o rqtvu"vq"qrgp"9"fkhgtg
ceeqpvu<

- *~~→ŽâábæŽ\~←æ^Žá´´~|^\\
- *~~→Ž@|~\æŽ\~←æ^Žá´´~|^\\
- *~~→Žá|\å~ã↔\]Ž↑↔^\\Žá´´~|^\\
- *~~→Žá|\å~ã↔\]Ž↑↔^\\Žá´´~|^\\
- *~~→Žá´´~|^\\
- →*Ž↑↔^\\
- |bæãŽ*~~→Ž\~←æ^Žá´´~|^\\

Kv"oki jv"dg"y qtvj"o cmkpi"vjcv"eqpvtckpv"c"dkv"uvtkevgtd{"cf fkp i"cdwhhgt"*tcvjgt
vjcp"ecnewncv kpi"vjg"gzcev"nc o rqtvu"tgs wktgf"hqt"gcej"ceeqwpv"v{ rg+0

JN/28_"Okuukpi"rtqfwvkqp"rtqitc o "KF Eqpł iwtcvkqp

Vjg"eqfg"eqpvckpu"cp"wpk o rng o gpvgf"VQFQ"hqt"vjg"rw o rac o o "rtqitc o "KF
eqpł iwtcvkqp<

äæ´→áãæŽ*ã~&ãá↑ÂÇ*|↑*Žá↑↑Dİ

Vjku"okuukpi"eqpł iwtcvkqp"rtgugpvu"ugxgtcn"tkumu<

- Rqvgpvkc n"fg rnq{ o gpv"hcknwtgu
- Kpeqttgev"rtqitc o "kpxqecvkqpu

Eqpukfgt"cf fkp i"rtqrgt"rtqitc o "KF"eqpł iwtcvkqp0

JN/29_"C f f"xcnk fcvkqp"ejgem"hqt"fwrnkecvg cwvjqtkv{

Ewttgpn{."vjg" | *ää\æŽ&→~ââ→Žá|\å~ã↔\]Ž↔↑*→"hwpevkqp"cnqyu"wr fcvkpi"vjg
inqdcn"cwvjqtkv{"vq"vjg"uc o g"cf ftguu"cu"vjg"ewttgpn"cwvjqtkv{0

rw d Ā h p Ā | * ä ā \ æ ž & → ~ â ā → ž ā | \ â ~ ä ↔ \] ž ↔ ↑ * →
Ā Ā Ç ´ \ [ĩ Ā E q p v g z v J Ů * ä ā \ æ ö → ~ â ā → N | \ â ~ ä ↔ \] L D Ā Ē L Ā Ē æ b | → \ J Ç D L Ā |
Ā Ā Ā Ā ´ \ [Ē ā ´ ´ ~ | ^ \ b Ē & → ~ â ā → Ē ā | \ â ~ ä ↔ \] Ā K Ā Ē ´ \ [Ē ā ´ ´ ~ | ^ \ b Ē ^ æ } ž ā | \ â ~ ä ↔ \] Ē ← æ] Ĩ

Ā Ā Ā Ā n g v Ā | * ä ā \ æ ž & → ~ â ā → ž ā | \ â ~ ä ↔ \] ž æ { æ ^ \ Ā K Ā Ů * ä ā \ æ ö → ~ â ā → N | \ â ~ ä ↔ \] Ó { æ ^ \ Ā |
Ā Ā Ā Ā Ā Ā Ā & → ~ â ā → ĩ Ā e v z Ē ā ´ ´ ~ | ^ \ b Ē & → ~ â ā → Ē ← æ] Ç D Ē
Ā Ā Ā Ā Ā Ā Ā ā | \ â ~ ä ↔ \] ĩ Ā Ē ´ \ [Ē ā ´ ´ ~ | ^ \ b Ē ā | \ â ~ ä ↔ \] Ē ← æ] Ē
Ā Ā Ā Ā Ā Ā Ā ^ æ } ž ā | \ â ~ ä ↔ \] ĩ Ā Ē ´ \ [Ē ā ´ ´ ~ | ^ \ b Ē ^ æ } ž ā | \ â ~ ä ↔ \] Ē ← æ] Ē
Ā Ā Ā Ā c Ĩ

Ā Ā Ā Ā æ ↑ ↔ \ Ā Ç | * ä ā \ æ ž & → ~ â ā → ž ā | \ â ~ ä ↔ \] ž æ { æ ^ \ D Ĩ
Ā Ā Ā Ā æ ↑ ↔ \ ž ´ * ↔ Ā Ç | * ä ā \ æ ž & → ~ â ā → ž ā | \ â ~ ä ↔ \] ž æ { æ ^ \ D Ĩ

Ā Ā Ā Ā Š ← Ç Ç D D
c

C f f " x c n k f c v k q p " v q " r t g x g p v " w r f c v k p i " c w v j q t k v { " v q " v j g " u c o g " c f f t g u u . " t g v w t p k p i " c p
c r r t q r t k e v g " g t t q t ĩ

JN/2: _ "Vqmgpu"ecp"dg"fqpcevgf"dghqtg
o k i t c v k q p " v q " t g f w e g " v j g " n k u v k p i " r t k e g " c h v g t
o k i t c v k q p

F w t k p i " o k i t c v k q p . " v j g " g p v k t g " v q m g p " d c n c p e g " q h " v j g " d q p f k p i " e w t x g " k u " v t c p u h g t t g f
v q " v j g " * ~ ~ ~ → ž ā | \ â ~ ä ↔ \] " C V C ĩ

\ ~ ← æ ^ ĩ ĩ \ ā ā ^ b ā æ ā Ç
Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā 1 1 " Q v j g t " u v w h h
Ā Ā Ā Ā Ā Ā Ā Ā ´ \ [Ē ā ´ ´ ~ | ^ \ b Ē ā b b ~ ´ ↔ ā \ æ ā ž ā ~ ^ ā ↔ ^ & ž ´ | ā { æ Ē ā ↑ ~ | ^ \ Ē
Ā Ā Ā Ā D L Ĩ

V j g p " v j k u " g p v k t g " c o q w p v " k u " t g e q t f g f " c p f " v t c p u h g t t g f " f w t k p i " v j g " r q q n " e t g c v k q p
r t q e g u u ĩ

n g v Ā ↑ ↔ \ ž ā ↑ ~ | ^ \ Ā K Ā * ~ ~ ~ → ž ā | \ â ~ ä ↔ \] ž ↑ ↔ \ ž ā ´ ´ ~ | ^ \ Ç B ´ \ [D Ē Ē ā ↑ ~ | ^ \ Ĩ
´ ä æ ā \ æ ž * ~ ~ ~ → Ç B ´ \ [Ē ā ↑ ↔ \ ž ā ↑ ~ | ^ \ Ē ā b ~ ~ ~ → ž ā ↑ ~ | ^ \ D Ē Ĩ

U q " k h " c " w u g t " f q p c v g u " c p { " v q m g p u " v q " v j g " d q p f k p i " e w t x g " q t " v q " v j g " C V C " c e e q w p v " d {
r t g / k p k v k e n k | k p i " k v . " v j g { " y k n n " c n n " g x g p v w c n n { " i g v " v t c p u h g t t g f " v q " v j g " r q q n . " y j k e j
y k n n " c h h g e v " v j g " n k u v k p i " r t k e g ĩ

F w t k p i " d q p f k p i . " x k t v w e n " t g u g t x g u " u v e t v " c v " 5 2 " u q n . " 3 2 9 5 2 2 2 " v q m g p u . " c p f " g p f " c v
3 3 7 " u q n . " 4 9 ; ; 3 5 " v q m g p u . " y j k e j " i k x g u " c " r t k e g " q h " 4 6 5 6 " v q m g p l u q n ĩ

Y jgp"okitcvgf."vjgpgy"rqqn"ku"etgcvgf"ykvj":7"uqn"cpf"428;22"vqmgpu."ykvj"c
nkuvkpi"rtkeg"qh"465603"vqmgp0uqn0

Dwv"kh"322222"vqmgpu"jcxg"dggp"fqpvcgf"vq"vjg"dqpfkpi"ewtxg."vjg"rqqn"yknndg
etgcvgf"ykvj":7"uqn"cpf"528;22"vqmgpu."ykvj"c"nkuvkpi"rtkeg"qh"5832"vqmgpu0uqn0

Uq"vjg"nkuvkpi"rtkeg"ecp"dg"ftqrrgf"ykvjqwv"cp{"dw{"qt"ugnn0"Vjg"kuuwg"ku"vjcv
fgzvqqnu."uetggpgtu."cpf"cnm"qvjgt"cr ru"vtcem"eqpvtcev/gokvvgf"gxgpvu"vq"vtcem
dw{u"cpf"ugnnu0"Vjku"v{rg"qh"fqpvcvkqp"yqp)v"ujqy"wr"cp{y jgtg"y jkng"chhgev kpi
vjg"rtkeg0"Vjku"ecp"dg"eqphwukpi"vq"vjg"wugtu"ukpeg(kv)u"dcukecnn{"c"å↔äää^"yc{
vq"fwor"vqmgp"rtkeg0

Eqpukfgt"vtcpuhgttkpi"qpn{"vjg"ãæā→Ž\~←æ^Žãæbæã{æb"vq"vjg"rqqn0"Vjg"tguv"qh
vjg"vqmgpu"ecp"dg"ugpv"vq"vjg"rqqnacwvj qtkv{0"Vjku"yknngpuwtg"vjg"vqmgpu"cnyc{u
igv"nkuvvgf"cv"vjg"ucog"rtkeg"qh"4656"vqmgpluqn"chvgt"dqpfkpi"."cpf"pqv"igv
chhgevvgf"d{"fqpvcvkqpu"fwtkpi"vjg"dqpfkpi"rtqegu0

JN/2;_ "Okuukpi"ejgemgf"ctkvj o gyke qrgtcvkqpu"qp"vjg"nk d

Owvkrng"nqecvkqpu"kp"vjg"rtqvqeqn"ncem"ejgemgf"ctkvj o gyke"qrgtcvkqpu.
rqvgpvkcnn{"ngcfkpi"vq"wpfgtEqyulqxgtEqyu"kp"ecnewncvkqpu0

Korcev<

- Uknpgv"wpfgtEqy lqxgtEqy

Ectiq0vqon"gpcdngu"qxgtEqy"ejgem"d{"fghcwvn0"Kp"rtcevkeg."vjgtg"ku
pq"qxgtEqy"fwg"vq"vjcv"ejgem0

- Fkxkukqp"d{"|gtq

Eqfg"Nqecvkqp"<"lutelnkd0tu

30"Dw{"Qrgtcvkqp"Ctkvj o gyke

11"Ewttgpv"korngogpvcvkqp"

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æbĂĖKĂá↑~|´\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Ž\~←æ^Žăæbăă{æbĂĖKĂá↑~|´\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Žb~→Žăæbăă{æbĂĖKĂb~→Ž´~b\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Žb~→Žăæbăă{æbĂĖKĂb~→Ž´~b\İ

11"Tgswktgf<"Ejgemgf"ctkvjogvke

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æbĂKĂ´\[\Èá´´~|´\b
ĂĂĂĂÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æb
ĂĂĂĂÈ´âæ´←æăŽb|âÇá↑~|´\D
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Ů^ăæăă~}DEİ

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Ž\~←æ^Žăæbăă{æbĂKĂ´\[\Èá´´~|´\b
ĂĂĂĂÈâ~^ä↔^&Ž´|ă{æÈăæá→Ž\~←æ^Žăæbăă{æb
ĂĂĂĂÈ´âæ´←æăŽb|âÇá↑~|´\D
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Ů^ăæăă~}DEİ

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Žb~→Žăæbăă{æbĂKĂ´\[\Èá´´~|´\b
ĂĂĂĂÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Žb~→Žăæbăă{æb
ĂĂĂĂÈ´âæ´←æăŽăăăÇb~→Ž´~b\D
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Š{æăă~}DEİ

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Žb~→Žăæbăă{æbĂKĂ´\[\Èá´´~|´\b
ĂĂĂĂÈâ~^ä↔^&Ž´|ă{æÈăæá→Žb~→Žăæbăă{æb
ĂĂĂĂÈ´âæ´←æăŽăăăÇb~→Ž´~b\D
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Š{æăă~}DEİ

40"Ugmn"Qrgtcvkqp"Ctkvj o gyke

11"Ewttgpv"korngogpvcvkqp"

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æbĂĖKĂá↑~|´\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Ž\~←æ^Žăæbăă{æbĂĖKĂá↑~|´\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Žb~→Žăæbăă{æbĂĖKĂb~→Ž~|*|\İ
´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈăæá→Žb~→Žăæbăă{æbĂĖKĂb~→Ž~|*|\İ

11"Tgswktgf<"Ejgemgf"ctkvjogvke

´\[\Èá´´~|´\bÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æbĂKĂ´\[\Èá´´~|´\b
ĂĂĂĂÈâ~^ä↔^&Ž´|ă{æÈ{↔ă\|á→Ž\~←æ^Žăæbăă{æb
ĂĂĂĂÈ´âæ´←æăŽăăăÇá↑~|´\D
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Š{æăă~}DEİ

50"Hgg"Ecnewncvkpu

11"Ewttgpv"korngogpvcvkqp"

Ç|FGİîîîăă~↑Çá↑~|´\DĂĖĂ|FGİîîîăă~↑Çbæ→ăÈăææŽăăb↔bŽ*~↔^bDĂĖĂİŽîîîİDĂĖĂFeŽeee

11"Tgswktgf<"Ejgemgf"ctkvjogvke

ngvĂăææĂKĂ|FGİîîîăă~↑Çá↑~|´\D
ĂĂĂĂÈ´âæ´←æăŽ↑|→Ç|FGİîîîăă~↑Çbæ→ăÈăææŽăăb↔bŽ*~↔^bDD
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Š{æăă~}DE
ĂĂĂĂÈ´âæ´←æăŽăăăÇİİİİD
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Š{æăă~}DE
ĂĂĂĂÈ´âæ´←æăŽă↔{ÇFeŽeeeD
ĂĂĂĂÈ~←Ž~ăÇŞ|↑*Óăă~ăîîNă↔\â↑æ\↔´Ōăă~ăDEİ

60"Dw{"Swqyg"Ecnewncvkqp

11"Ewttgpv"korngogpvcvkqp"
ngvÁb~→Ž´~b\ÁKÁÇá↑~|´\ÁEÁ{↔ǎ\|á→Žb~→Žǎæbæǎ{æbDÁĐÁ
ÁÁÇ{↔ǎ\|á→Ž\~←æ^Žǎæbæǎ{æbÁĖÁá↑~|´\Dİ
b~→Ž´~b\ÁEÁF

11"Tgswktgf<"Ejgemgf"ctkvjogvke
ngvÁäæ^~↑↔^á\~ǎÁKÁ{↔ǎ\|á→Ž\~←æ^Žǎæbæǎ{æb
ÁÁÁÁĖ´áæ´←æǎŽb|áÇá↑~|´\D
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Ů^ǎæǎà~}DEİ

ǎæ@|↔ǎæŽ&\ÁÇäæ^~↑↔^á\~ǎĖÁĖĖÁŞ|↑*Óǎǎ~ǎİİĖ↔{↔b↔~^Ñ]Xæǎ~Dİ

ngvÁb~→Ž´~b\ÁKÁá↑~|´\
ÁÁÁÁĖ´áæ´←æǎŽ↑|→Ç{↔ǎ\|á→Žb~→Žǎæbæǎ{æbD
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Ş{æǎà~}DE
ÁÁÁÁĖ´áæ´←æǎŽǎ↔{Çäæ^~↑↔^á\~ǎD
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Óǎǎ~ǎDE
ÁÁÁÁĖ´áæ´←æǎŽáǎǎÇFD
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Ş{æǎà~}DEİ

70"Ugm"S wqvg"Ecnewncvkqp

11"Ewttgpv"korngogpvcvkqp"
Çá↑~|´\ÁEÁ{↔ǎ\|á→Žb~→Žǎæbæǎ{æbDÁĐÁÇ{↔ǎ\|á→Ž\~←æ^Žǎæbæǎ{æbÁĖÁá↑~|´\D

11"Tgswktgf<"Ejgemgf"ctkvjogvke
ngvÁäæ^~↑↔^á\~ǎÁKÁ{↔ǎ\|á→Ž\~←æ^Žǎæbæǎ{æb
ÁÁÁÁĖ´áæ´←æǎŽáǎǎÇá↑~|´\D
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Ş{æǎà~}DEİ

á↑~|´\
ÁÁÁÁĖ´áæ´←æǎŽ↑|→Ç{↔ǎ\|á→Žb~→Žǎæbæǎ{æbD
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİNǎ↔\á↑æ\↔´Ş{æǎà~}DE
ÁÁÁÁĖ´áæ´←æǎŽǎ↔{Çäæ^~↑↔^á\~ǎD
ÁÁÁÁĖ~←Ž~ǎÇŞ|↑*Óǎǎ~ǎİİĖ↔{↔b↔~^Ñ]Xæǎ~DE

Cnuq."oki tcvkqp"ko rng o gpvcvkqp"jcu"wpuchg"ctkvj o gvke"qp"vjg"hqnnq y kpi
ko rng o gpvcvkqp0

ngvÁ
ÁÁÁb~→Žá↑~|´\ÁKÁ´\ [Ėá´´~|´\bĖă~^ǎ↔^Ž´|ǎ{æĖǎæǎ→Žb~→Žǎæbæǎ{æbÁĖÁ*~→Ž↑↔&ǎǎ\↔~^Žàææİ

Eqfg"Nqecvkqp"<"oki tcvg0tu%N36:/N372

ngvÁ
ÁÁÁb~→Žá↑~|´\ÁKÁ´\ [Ėá´´~|´\bĖă~^ǎ↔^&Ž´|ǎ{æĖǎæǎ→Žb~→Žǎæbæǎ{æbÁĖÁ*~→Ž↑↔&ǎǎ\↔~^Žàææİ

Eqfg"Nqecvkqp"<"oki tcvg0tu%N36:/N372

Eqpukfgt"cf f kpi"ejgemgf"ctkvj o gvke"vq"etkvkecn"rcvju0

JN/32_"Dqpfkpi"ecp"dg"fgnc{gf"kpfgłpkvgn{

ngvĀ*á]↑æ^\\Žăæ@|↔ăăăĀKĀĤæ^\\iī&æ\\ÇDĒ
ĀĀĀĀĀĀĀĀĒ↑↔^↔↑|↑Žăă→ă^'æÇ^æ}Žb↔~æD
ĀĀĀĀĀĀĀĀĒbă\\|ăă\\↔^&Žb|ăÇă'~| ^\\Ē→ă↑*~ă\\bÇDDĪ

Vjwu"kh"vjg"ceeqwpv"dgkpi"gzvgpf"cntgcf{"jcu"nc o rqtvu."kv"y qp)v"ejctig"vjg
ecmgt0"Vjg"ă~^ă↔^&Ž' |ă{æ"ku"cnnqygf"vq"dg"gzvgpf"cpf"kv"cnuq"eqpvckpu"vjg
UQN"vqmgpu"htq o "vjg"dqpfkpi"rtqeguu0"Vjwu"cp{"wugt"ecp"kpetgcug"kvu"ceeqwpv
uk|g."y jkej"y kn"vcuv"uq o g"qh"vjg"UQN"kp"vjg"dqpfkpi"eqvtcev"gxgp"kh"kv"ku"pqv
pgeguuct{0

Vjku"ecp"ngcf"vq"uq o g"y cuvcig"qh"UQN."y kvj"wugtu"gzvgpfkpi"ceeqwpv"uk|gu
wppgeguuctkn{0

Eqpukfgt"o cmkpi"vjg"æ[\\æ^ăŽă'~| ^\\ "hwpevkqp"ceeguu"eqvtqmgf."uq"qp{"vjg
pgeguuct{"ceeqwpv"ecp"dg"gzvgpf"Qvjgtykug."ugv"ctguvtkevgf"wr rgt"nk o kv.
kpuvgcf"qh"32462"y jkej"ku"vjg"oczko w o "nk o kv"qh"Cpejqt0"Vjku"ecp"nk o kv"uqn
y cuvcig0