

Wpku y cr"X6"Rgtr jgt{"Ugewtkv{  
Tgxkg y

---

Rcu j qx"Cwfk v" I tqwr

Eqpfwevgf"d{<"fghuge."fktma{"Ujcmc

Qevqdt"33vj"/"Qevqdt"38vj

# Eqpvgpvu

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30"Cdqwv"Rcu j q x"Cw f k v" I t q w r	2
40"Fku en c k o g t	2
50"Kpvtq f w e v k q p	2
60"Cdqwv"Wpku y c r"X6"Rg t k r j g t {	2
70"Tkum"Encuuk f e c v k q p	3
7030"K o r c e v	3
7040"Nkmg n k j q q f	3
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	4
80"Ugewt k v { " C u u g u u o g p v" U w o o c t {	4
90"Gzgewv k x g" U w o o c t {	5
:0"Hk p f k p i u	7
:030"O g f k w o " H k p f k p i u	7
J O / 23 _ " J q q m " c f f t g u u " k u " p q v " e q t t g e v n { " t g r t g u g p v g f " k p " v j g	7
U X I	
:040"Nq y " H k p f k p i u	9
J N / 23 _ " J q q m " c f f t g u u " e q w n f " d g " w p u g v	9
J N / 24 _ " D t g c m k p i " e j c p i g " v q " r g t o k v " j c u j g u	9
J N / 25 _ " W u k p i "   g t q " c f f t g u u " h q t " p c v k x g " v q m g p " e c p " d g	10
e q p h w u k p i " h q t " g p f " w u g t u	
J N / 26 _ " U r g e k c n " e j c t c e v g t u " p q v " g u e c r g f " e c p " r t q f w e g " k p x c n k f	10
L U Q P	
J N / 27 _ " N q p i " u { o d q n " u v t k p i u " e c p " e c w u g " v q m g p W T K " v q " t g x g t v	11
q t " c t v k h c e v u " k p " v j g " U X I " k o c i g	
J N / 28 _ " e w t t g p e { F g e k o c n u " f q g u " p q v " e j g e m " k h " v j g " x c n w g	
t g v w t p g f " k u " w k p v :	

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

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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  
r tqvqeqn0"E j gem"qwt"rtgxkqwu"y qtm"jgtg"qt"tgcej"qvw"qp"Vy kvvgt" Brcu j qxmtw o.0

# 40"Fkuenck o gt

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C"u o ctv"eqpvtcev"ugewtkv{"tgxkgy"ecp"pgxgt"xgtkh{"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  
l p f"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"l p f"cp{"rtqdng o u"y kvj" { qwt"u o ctv"eqpvtcevu0  
Uwdugswgpv"ugewtkv{"tgxkgyu."dwi"dqwpv{"rtqi tc o u"cpf"qp/ejckp"o qpkvqtkpi"ctg  
uvtqpin{"tgeq o o gpfgf0

# 50"Kpvtq fwevkqp

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C"vk o g/dqzgf"ugewtkv{"tgxkgy"qh"v j g"vk o gnguu/ l1dwppk/x4"tgrqukvqt{"y cu"fqpqgd{  
**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"k o rng o gpvcvkqp0

# 60"Cdqwv"Wpku y cr"X6"Rgtkr jgt{

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Wpku y cr"x6"tgvcphu"v j g"ecrkvcn"ghl ek gpe{"k o rtqxo g p v u"qh"Wpku y cr"x5."y j kng  
kpvtqfwekpi"EGzkdknkv{"v j tqw i j"jqqmu"cpf"qr vk o k|kpi"i cu"wuc i g"v j tqw i j q w v"v j g  
gpvktg"rtqegu0"UX I"eqpvtcev"kp"rgtkr jgt{"eqpvtcevu"f g l p g u" c"nkd t c t {"ecmgf  
PHVUX I."y jkej"rtqxfgu"hwpevkqpu"hqt"i gpgtcvki"UX I" k o c i g u" w u g f" k p" W p k u y c r  
PHVu."eq o dkpkpi"ewuvq o k|cdng"i tcr j kecn"ngng o gpvu"nkmg"ewtxgu."eqnqtu."cpf"rqukvkqpu  
dcugf"qp"xctkqwu"rtc o gvgtu"uwe j"cu"vqmgp"KFu."rtkeg"tcp i gu."cpf"vqmgp"u{ o dqu0

# 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"hwpvkqpсnkv{ "qh"vjg"rtqvqeqn"ku"chhgevгf0
- Nqy"/"ecp"ngcf"vq"сp{ "mkpf"qh"wpgzrgevгf"dgjcxkqt"ykvj"uqog"qh"vjg"rtqvqeqn)u hwpvkqpсnkvkgu"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{ "kpegpvkхk | g f"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"nkvvng"qt"pq"kpegpvkхg0

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

- Etkvkecn"/"Owuv"ǀz"cu"uqqp"cu"rquukdng"\*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"/"9hccg693:ggefc3d55fe5cdf::6653gf4f38e;4;

ǀzgu"tgxkgy"eqo okv"jcu j"/"3c43;422:7he934ec967583dh5;9g:c9dg47fe3e

### Ueqrg

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

- Ş~b↔\↔~^Æab´ã↔\*~ã
- Ş~b↔\↔~^Rá^á&æã
- ÓĤOÍGFŞæã↑↔\Ž{H
- UáàæO|ããæ^´]Ræ\áää\á
- NääãæbbU\ã↔^&û\↔b
- Òæ[U\ã↔^&b
- Æab´ã↔\*~ã
- UÜÖ
- UáàæO|ããæ^´]Ræ\áää\á

# 90"Gzgewvkxg"Uw o o ct{

Qxgt"vjg"eqwtug"qh"vjg"ugewtkv{"tgxkgy."fghuge."fktma{"Ujcmc"gpicigf"ykvj"Wpkuycr  
vq"tgxkgy"Wpkuycr"X6"Rgtrjgt{0"Kp"vjkurgtkqf"qh"vkog"cvqvcn"qh"9"kuuwgu"ygtg  
wpeqxtgf0

## Rtqvqeqn"Uw o o ct{

Rtqvqeqn"Pcog	Wpkuycr"X6"Rgtrjgt{
Tgrqukvqt{	jvru<llikvjwd0eqo lWpkuycr lx6/rgtrjgt{
Fcvg	Qevqdt"33vj"/"Qevqdt"38vj
Rtqvqeqn"V{rg	FGZ

## Hkpfkpiu"Eqwpv

Ugxgtkv{	C o qwpv
Ogfkwo	3
Nqy	8
Vqvcn"Hkpfkpiu	9

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

KF	Vkvng	Ugxgtkv{	Uvcvwu
]O/23_	Jqqm"cf ftguu"ku"pqv"eqttgevn{ tgrtgugpvgf"kp"vjg"UX I	Ogfkwo	Tguqnxgf
]N/23_	Jqqm"cf ftguu"eqwnf"dg"wpugv	Nqy	Tguqnxgf
]N/24_	Dtgcmkpi"ejcpig"vq"rgt okv"jcu jgu	Nqy	Cempqyngfigf
]N/25_	Wukpi"  gtq"cf ftguu"hqt"pcvkxg"vqmgp ecp"dg"eqphwukpi" hqt"gp f" wugtu	Nqy	Tguqnxgf
]N/26_	Urgekc"ejctcevgtu"pqv"guecrgf"ecp rtqfweg"kpxcnkf"LUQP	Nqy	Tguqnxgf
]N/27_	Nqpi"u{ o dqn"uvtkpiu"ecp"ecwug vqmgpWTK"vq"tgxgtv"qt"ctvkhcevu"kp"vjg UX I"ko cig	Nqy	Tguqnxgf
]N/28_	ewttgpe{ Fgek ocnu"fqgu"pqv"ejgem"kh vjg"xcnwg"tgvwtpgf"ku"wkpv:	Nqy	Tguqnxgf

:0"Hkpfkpiu

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:030"Ogfkwo"Hkpfkpiu

]O/23\_"Jqqm"cffftguu"ku"pqv"eqttgevn{  
tgrtgugpvvgf"kp"vjg"UXI

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Ugxgtkv{

Ko rcev<"Nqy

Nkmgnkjqgf<"Jki j

Fguetkrvkqp

Vjg"&æ^æãá\æUÜÖŞ~b↔\↔~^Æá\áN^äQ~´á\↔~^o|ã{æ"qh"vjg"UÜÖ"nkdttct{"igpgtcvgu  
vjg"UXI"hqt"vjg"rqukvkqp"fcvc0"Vjku"fcvc"kpewfgu"vjg"cffftguu"qh"vjg"jqm  
eqpvtcev."y jkej"ku"pqv"tgrtgugpvvgf"kp"hwmm."dwv"qp{ "vjg"ıtuv"cpf"ncuv"ejctcevgtu  
ykvj"cp"gnkruku"kp"dgv yggp0

Vq"rtqeguu"vjg"jqm"cffftguu."ıtuv."vjg"\~ðæ[U\ã↔^&"hwpevkqp"ku"ecmgf"vq  
vtcpuhqto"vjg"cffftguu"kpvg"cuvtkpi."uq"vjg"å~~←U\ã"xctkcdng"ku"64"ejctcevgtu  
nqpi"cpf"vjg"tcpi"qh"kvu"d{vgu"kpfgzgu"ku"htqo"2"vq"630

Vjgp"vjg"unkegf"cffftguu"ku"igpgtcvgf"d{"eqpecvgpcvki"vjg"ıtuv"7"ejctcevgtu."vjg  
gnkruku."cpf"vjg"ncuv"5"ejctcevgtu"qh"vjg"å~~←U\ã"xctkcdng0"Jqygxgt."vjg"xcnwgu  
rcuugf"vq"vjg"b|âb\ã↔^&"hwpevkqp"ctg"kpqttgev"hqt"vjg"ncuv"ejctcevgtu."cu  
æ^äø^äæ["ujqwnf"dg"64"kpugcf"qh"620



à | ^ ´ \↔~^Ā&æ^æāā\æUÜÖŞ~b↔\↔~^Ĳá\áN^ăQ~´ă\↔~^O | ā {æÇ  
ĂĂĂĂĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ă\~←æ^øăĖ  
ĂĂĂĂĂĂĂĂăăăăăăbăă~←Ė  
ĂĂĂĂĂĂĂĂ↔^ \GHĂ\↔´←Q~ }æăĖ  
ĂĂĂĂĂĂĂĂ↔^ \GHĂ\↔´←Ů\* \*æă  
ĂĂĂĂDĂ\*ă↔{ á\æĂ\* |ăæĂăæ\ |ă^bĂÇb\ă↔^&Ă↑æ↑~ă ]Ăb{&DĂ |  
MLĂĂĂĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ăă~←U\ăĂKĂÇ |↔^ \GIŮÇ |↔^ \FŮĲÇă~←DDDĖ\~Ōæ[ U\ă↔^&ÇGĖDĬ  
ĂĂĂĂĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ă\↔´←Q~ }æăU\ăĂKĂ\↔´←Ů~U\ă↔^&Ç\↔´←Q~ }æăDĬ  
ĂĂĂĂĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ă\↔´←Ů\* \*æăU\ăĂKĂ\↔´←Ů~U\ă↔^&Ç\↔´←Ů\* \*æăDĬ  
ĂĂĂĂĂĂĂĂ |↔^ \GIŮĂb\ăF→æ^&\ăĂKĂĂ ]\ăbÇ\~←æ^øăDĖ→æ^&\ăĂĖĂHĬ  
MLĂĂĂĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ăă~←U→´æĂKĂb\ă↔^&Çăă↔Ėæ^´~ăăŞă´←æăÇb |ăb\ă↔^&  
ĂĂÇă~←U\ăĖĂĖĖĂĬDĖĂĂĖĖĖĖĂĖĂb |ăb\ă↔^&Çă~←U\ăĖĂĜĬĖĂHĖDDDĬ

Vjku"o gcpu"vjcv"kh"vjg"jqqm"cf f tguu"ku  
€[NēāîŋİİF´ŮGFIâĜŮ´FăFIĖHáGæİŌâ€´ŌĜŮĖŮæŃHĬ".vjg"UX I"y knn"ujqy"vjg  
hqnmqy kpi"vgzv<

Ō~←iĂ€[ á€ăĖĖĖĖŮæă

Vjku"y knn"tguwnv"kp"wugtu"pqv"dgkpi"cdng"vq"kf g p v k h { "vjg"jqqm"eqpvtcevŌ

Tgeq o o gp f cvkqpu

ĖĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ăă~←U→´æĂKĂb\ă↔^&Çăă↔Ėæ^´~ăăŞă´←æăÇb |ăb\ă↔^&  
ĖĂÇă~←U\ăĖĂĖĖĂĬDĖĂĂĖĖĖĖĂĖĂb |ăb\ă↔^&Çă~←U\ăĖĂĜĬĖĂHĖDDDĬ  
ĖĂĂĂĂb\ă↔^&Ă↑æ↑~ă ]Ăă~←U→´æĂKĂb\ă↔^&Çăă↔Ėæ^´~ăăŞă´←æăÇb |ăb\ă↔^&  
ĖĂÇă~←U\ăĖĂĖĖĂĬDĖĂĂĖĖĖĖĂĖĂb |ăb\ă↔^&Çă~←U\ăĖĂĜĬĖĂHGDDDĬ

:040"Nq y "Hkp fkp i u

## JN/23\_ " J qqm" c f f tguu"eqwn f"dg"wpugv

Kp" Æab´ã↔\*~ãÈb~→ "cpf" UÜÖÈb~→ "kv" c r r gctv" v j cv" v j gtg" ku" v j g" g z r g e v c v k p" v j c v  
g x g t{ " r q u k v k p" y k n n" j c x g" c p" c u u q e k c v g f" j q q m" e q p v t c e v. " j q y g x g t" c u" u v c v g f" k p" v j k u  
r c i g. " j q q m u" c t g" q r v k q p c n" h q t" n k s w k f k v{ " r q q n u. " u q" r q u k v k q p u" o c{ " p q v" j c x g" c p  
c u u q e k c v g f" j q q m 0

Hq t" g z c o r n g. " v j g" U X I u" v j c v" c t g" i g p g t c v g f" k p" UÜÖÈb~→ " e q w n f" d g" e q p h w u k p i" v q  
w u g t u" y j q" j c x g" r q u k v k q p u" k p" n k s w k f k v{ " r q q n u" y k v j q w v" c" j q q m" e q p v t c e v 0" K p" v j g  
e w t t g p v n{ " i g p g t c v g f" U X I u" v j g t g" y k n n" d g" u g e v k q p u" v j c v" n q q m" u q o g v j k p i" n k m g" Ö~~←İ  
€[ €€€€ÈÈÈÈ€€€€ 0" V q" v j g" w p g f w e c v g f" w u g t. " k v" o k i j v" n q q m" n k m g" v j g" U X I " y c u  
i g p g t c v g f" k p e q t t g e v n{ " q t" v j c v" v j g" j q q m" k u" k p f g g f" c v" v j g" f k u r n c{ g f" c f f t g u u 0

Kv" y q w n f" d g" d g v v g t" k h" v j g t g" y c u" e q p f k v k q p c n" n q i k e" h q t" y j g p" c" r q u k v k q p" f q g u" p q v  
j c x g" c p" c u u q e k c v g f" j q q m 0" U q o g" r q u u k d k n k v k g u" k p e n w f g <

- o I g p g t c v k p i" U X I u" \* q t" f g u e t k r v q t u + " y k v j q w v" j q q m / u r g e k f e" u g e v k q p u" k h" v j g  
t g n g x c p v" n k s w k f k v{ " r q q n" f q g u" p q v" w u g" c" j q q m" e q p v t c e v
- o K p u v g c f" q h" f k u r n c{ k p i" €[ €€€€ÈÈÈÈ€€€€ " f k u r n c{ " c" u v t k p i" n k m g" S~Áå~~←

Qh" e q w t u g. " k v" o k i j v" d g" g c u k g t l d g v v g t" v q" u v k e m" y k v j" v j g" 2" c f f t g u u" h q t" u q o g  
e q o r q p g p v u" n k m g" W T K u" v j c v" p g g f" v q" d g" e q p f t o g f" v q" c" u r g e k f e. " g z r g e v g f" h q t o c v 0  
J q y g x g t. " h q t" w u g t / x k u k d n g" e q p v g p v. " k v" y q w n f" d g" d g v v g t" v q" d g" o q t g  
v t c p u r c t g p v l g z r n k e k v 0

## JN/24\_ "Dtgc m k p i" e j c p i g" v q" r g t o k v" j c u j g u

C n v j q w i j" x 6" j c u" p q v" { g v" d g g p" f g r n q{ g f" v q" o c k p p g v. " k v" j c u" d g g p" f g r n q{ g f" v q  
v g u v p g v. " u q" k v" k u" y q t v j" e c n n k p i" q w v" v j c v" v j g" u o c m n" e j c p i g" v q" v j g" p c o g" u v t k p i" k p  
Ş~b↔\↔~^Rá^á&æãÈb~→ " h t q o" ÜH " v q" {H} " y k n n" d t g c m" c m n" g z k u v k p i" r g t o k v u" v j c v" j c x g  
d g g p" u k i p g f" d w v" p q v" d g g p" w u g f" { g v 0" V j k u" o c{ " k o r c e v" c p{ " k p v g i" t c v q t u" v j c v" c t g  
v g u v k p i" y k v j" x 6 0

Kh" v j k u" e j c p i g" k u" w p f g t u v q q f" c p f" e q o o w p k e c v g f" v q" c p{ " f q y p u v t g c o" v g u v p g v  
k p v g i" t c v q t u" v j g p" v j k u" e j c p i g" e c p" r g t u k u v 0

ÓÚÒÁNääääæbbíÁ€[ee
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[illegible]

Eqpukfgt"o cpc i kpi "vjg"ur gekcn"ecug"qh"vjg"ewttgpe{"dgkpi"vjg"pcvkxg"vqmgp"cpf  
pqv"fkurnc{kpi"vjg"cfftguu"kp"vjcv"ecug"qt"wukpi"c"fkhhgtgpv"tgrtgugpvcvkqp."nkmg  
vjg"yqtf"\$Pcvkxg\$0

Vjg"hqnnqykpi"ejctcevgtu"ujqwnf"dg"guecrgf"kp"vjg"ucog"yc{"cu"kv"ku"fqpg"hqt  
vjg"fqwdng"swqvg"ejctcevg<

- $\hat{Y} \mid \epsilon \epsilon \epsilon \epsilon$  "hqt o "hggf+
- $\hat{Y}^{\wedge}$  "pgy nkpg+
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30"Kh"vjg"ngpi vj "qh"vjg"u{ o dqn"ku"i tgcvg"vjcp"477"ejctcevgtu."vjg

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## JN/28\_"ewt t g p e { F g e k o c n u " f q g u " p q v " e j g e m " k h v j g " x c n w g " t g v w t p g f " k u " w k p v :

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Jqy gxgt."vjg"hwpevkqp"fqgu"pqv"ejgem"kh"vjg"xcnwg"tgwtpgf"d{"vjg"vqmgp  
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Y jkng"c"fgek o cn"xcnwg"i tgcvgv"vj cp"477" o ki j v"pqv"dg"gz rgevgf."cu"kv"ku"pqv  
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