

**Kpvgt rqn"Ugewtkv{"Tgxkg y**

**Rcujqx"Cwfkv" I tqwr**

Eqpfwevgf"d{<"ucujkm/gvj."mtkmqgvj."rqpvhgz."ucmujc o

Fgeg o dgt"46vj"4246"/"Lcpwct{"4pf"4246

# Eqpvgpvu

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30"Cdqwv"Rcu j qx"Cwfk v" I tqwr	3
40"Fkuenck o gt	3
50"Kpvtq fwevkqp	3
60"Cdqwv"Kpvgtrqn	3
70"Tkum"Encuuk f ecvkqp	4
7030"K o rcev	4
7040"Nkmgnkj qqf	4
7050"Cevkqp"tgswktgf"hqt"ugxgtkv{"ngxgnu	5
80"Ugewtkv{"Cuuguu o gpv"Uw o o ct{	5
90"Gzgewvkg"Uw o o ct{	6
:0"Hkpfkpi u	9
:030" Jk i j"Hkpfkpi u	9
J J /23_"Tgyctf"vqmgpu"ecp"dg" ykv j ftc y p" y kv j qwv"hgg	9
:040" O gfkwo"Hkpfkpi u	11
J O /23_"Tgyctfu"oki j v"dg"vg o rqtctkn{"uvwem"kp"Mqfkcm cfervgt	11
J O /24_"Cvvcemgt"ecp"FqU"nqemgtu"htq o "wpuvcmkpi "htq o Mqfkcm	13
J O /25_"GTE42"vqmgpu" ykv j qwv"tgvwtp"xcnwg" yknn" FqU tgyctf"enck o kpi	15
:050"Nqy"Hkpfkpi u	17
J N /23_"Vj g"nqemgt"q y pgt"ecp"tgfktgev"cnh"hggu"vq"v j g tghgttgt	17
J N /24_"Wrfcvkpi "hgg"u j ctg" y j gp"cp"qxgttkfki "tghgttgt gzkuvu	17
J N /25_"Nqemgt"fqgu"pqv"j cxg"qpGTE943Tgegkxgf"jqqm	18
J N /26_"gzrktcvkqpu"ku"ugv"vq"2"hqt"pqp/wp nqemgf"vqmgpu	18
J N /27_"Mqfkcm"xcwnv"ecp"tgxgtv"wpuvcmkpi lenck o kpi "ecnu	19
J N /28_"ajcuUgvQrgtcvqt"ku"pqv"ugv"vq"vtwg	19
J N /29_"Kpjgtkvkpi "Kpkvkcnk   cdng"cpf"fkucdnkpi "kpkvkcnk   gtu	20
J N /2:_"Dnqemgf"vqmgpu"ecp"dg"fgrqukvgf"dwv"ecppqv"dg ykv j ftc y p	

JN/2;_ "Vjg"gzrktcvkqpu"ecp"cnyc{u"dg"nguu"vjcp dnqem0vk o guvc o r	20
JN/32_ "Uq o g"cfcrvgtu" o k i j v"dg"wpcdng"vq"uvcmg"GTE943 vqmgpu	21
JN/33_ "Mqfkcm"uvcmkpi "vk o g"ku"pqv"cfwuvcdng	

## 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 cxkpi" c"eq o dkpgf"tgrqtvgf"ugewtkv{  
xwnpgtcdknkvkgu"eqwpv"qh"qxgt"3222."v j g" i tqwr"uvtkxgu"vq"etgcvg"v j g"cdunwvg"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 kvvg"t 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 t c 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"2z J qpg{Lctlkpvgt rqn"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"Kpvgt rqn

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KpvgtRqn"qp"Dgtcejckp"cmnqy u"wugtu"vq"nqem"v j gkt"nkswkfkv{"y jkng"uvknn"gctpkpi  
tgyctfu0"V j g" J qpg{Nqemgt"eqpvtcev"gpcdngu"wugtu"vq"fgrqukv"cpf"nqem"NR"vqmgpu"hqt  
urgek l g f"fwtcvkqpu"cpf"uvcmg"v j g o"kp"xcwnvu"v j tqwi j"ugewtg"cfcrvgtu0"V j g  
J qpg{Swggp"o cpcigu"cr rtqxf"cfcrvgtu."vtcemu"tgyctf"vqmgpu."cpf"ecnewncvgu"hggu0  
V j ku"uvtwevwtg"jgnru"nkswkfkv{"rtqxfgtu"tgvcckp"hwmm"eqpvtqn"qh"v j gkt"cuugvu"y jkng  
rctvkekrcvkpi"kp"uvcmkpi"tgyctfu0

# 70"Tkum"Encuukłecvkqp

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

## 7030"K o rcev

- Jki j"/"ngcfu"vq"cu"uk i pk łecpv" o cvgtkc n"nquu"qh"cuugvu"kp"vj g"rtqvdeqn"qt"uk i pk łecpv n{ jctou"cu"itqwr"qh"wugtu0
- Ogfkwo"/"qp n{"cu"ocnn"co qwpv"qh"hw p fu"ecp"dg"nquv"\*uwe j"cu"ngcmc i g"qh"xcnwg+"qt"ceqtg"hwpevkqpcnk v{"qh"vj g"rtqvdeqn"ku"chhgevgf0
- Nqy"/"ecp"ngcf"vq"cp{"mkpf"qh"wpgzrgevgf"dgjcxkqt"ykvj"uqog"qh"vj g"rtqvdeqn)u hwpevkqpcnk vkgu"vj cv)u"pqv"uq"etkvkecn0

## 7040"Nkmgknjqjf

- Jki j"/"cvvcem"rcvj"ku"rqqukdng"ykvj"tgcuqpcdng"cuuw o rvkqpu"vj cv"okoke"qp/ejckp eqpfkvkqpu."cpf"vj g"equv"qh"vj g"cvvcem"ku"tgncvkggn{"nqy"eqo rctgf"vq"vj g"co qwpv"qh hw p fu"vj cv"ecp"dg"uvqngp"qt"nquv0
- Ogfkwo"/"qp n{"c"eqpfkvkqpcnn{"kpegpvkxk|gf"cvvcem"xgevt."dwv"uvknn"tgncvkggn{ nkmg n{0
- Nqy"/"jcu"vqq"ocp{"qt"vqq"wpnkmg n{"cuuw o rvkqpu"qt"tgswktgu"cu"uk i pk łecpv"uvcmg"d{ vj g"cvvcemgt"ykvj"nkvnng"qt"pq"kpegpvkxg0

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

- Etkvkecn"/"Owuv"ǀz"cu"uqqp"cu"rquukdnq"\*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{

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tgxkgy"eqo okv"jcu j"/"3c9ff77c35h6c3e7f826h:h7cf4d9c85424465c8

ǀzgu"tgxkgy"eqo okv"jcu j"/"e3f;3c2dg29chh7g;;9de:hgc58:d;74dhche32;

## Ueqrg

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

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- Ô~^æ]T|ææ^
- Ô~^æ]Q~´←æã
- Ñææ←ææ\*æã
- Năă\*\æãôá´\~ã]
- Ũ~←æ^Ǽæ´æ↔{æã
- ÑŎŨU\ă\↔~^Năă\*\æã
- ÑábæŨă|→\Năă\*\æã
- Ñæăăăă~↑æNăă\*\æã
- Ø^ăăăăăăNăă\*\æã
- P~ă↔ă←Năă\*\æã

# 90"Gzgewvkxg"Uw o o ct{

Qxgt"vjg"eqwtug"qh"vjg"ugewtkv{"tgxkgy."ucujkm/gvj."mtkmqgvj."rqpvkkgz."ucmujco  
gpicigf"ykvj"Jqpg{Lct"vq"tgxkgy"Kpvgtrqn0"Kp"vjku"rgtkqf"qh"vko g"c"vqvcn"qh"37"kuuwgu  
ygtg"wpeqxgtgf0

## Rtqvqeqn"Uw o o ct{

Rtqvqeqn"Pc o g	Kpvgtrqn
Tgrqukvqt{	jvvruc11ikvjwd0eqo l2z Jqpg{Lctlkpvgtrqn
Fcvg	Fgeg o dgt"46vj"4246"/"Lcpwct{"4pf"4246
Rtqvqeqn"V{ rg	Rtqvqeqn/qypgf"nkswkfkv{"o cpcig o gpv

## Hkpfkpiu"Eqwpv

Ugxgtkv{	C o qwpv
Jki j	3
Ogfkwo	5
Nqy	33
Vqvcn"Hkpfkpiu	37

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

KF	Vkvng	Ugxgtkv{	Uvcvwu
]J/23_	Tgyctf"vqmgpu"ecp"dg"ykvjftcyp ykvjqwv"hgg	Jkij	Tguqnxgf
]O/23_	Tgyctfu"okijv"dg"vgorqtctkn{"uvwem kp"Mqfkcm"cfcrvgt	Ogfkwo	Tguqnxgf
]O/24_	Cwvcemgt"ecp"FqU"nqemgtu"htqo wpuvcmkpi"htqo"Mqfkcm	Ogfkwo	Tguqnxgf
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]N/27_	Mqfkcm"xcwnv"ecp"tgxgtv wpuvcmkpilenco kpi"ecnnu	Nqy	Cempqyngfigf
]N/28_	ajcuUgvQrgtcvqt"ku"pqv"ugv"vq"vtwg	Nqy	Tguqnxgf
]N/29_	Kpjgtkvkpi"Kpkvkcnk cdng"cpf"fkucdnkpi kpkvkcnk gtu	Nqy	Tguqnxgf
]N/2: _	Dnqemgf"vqmgpu"ecp"dg"fgrqukvgf"dwv ecppqv"dg"ykvjftcyp	Nqy	Tguqnxgf
]N/2: _	Vjg"gzrktcvkqpu"ecp"cnyc{"u"dg"nguu vjcp"dnqem0vko guvc o r	Nqy	Cempqyngfigf



<u>IN/32</u>	Uq o g"cfcrvgtu" o k i j v"dg"wpcdng"vq uvcmg"GTE943"vqmgpu	Nq y	Tguqnxgf
<u>IN/33</u>	Mqfkcm"uvcmkpi "vk o g"ku"pqv"cf lwuvcdng	Nq y	Tguqnxgf

:0"Hkp f k p i u

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

] J /23\_ "T g y c t f "v q m g p u "e c p "d g "y k v j f t c y p  
y k v j q w v "h g g

U g x g t k v {

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

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

K p v g t R q n "v c m g u "c "e w v "q h "v j g "t g y c t f u "c e e t w g f "h t q o "u v c m k p i "q h "v j g "v q m g p u "n q e m g f "k p  
v j g "r t q v q e q n "y j g p "y k v j f t c y k p i "v j g "t g y c t f "v q m g p u 0 "V j g "t g y c t f u "e c p "d g  
y k v j f t c y p "y k v j "v j g " } ↔ \ ä ä ä ä } Ó Þ O G € "h w p e v k q p . "y j k e j "c n u q "u g p f u "v j g "h g g "v q "v j g  
r t q v q e q n 0 "J q y g x g t . "w u g t u "e c p "w u g "v j g " } ↔ \ ä ä ä ä } Q Ş Ū ~ ← æ ^ "h w p e v k q p "v q "d { r c u u "v j g  
h g g 0 "V j k u "j c r r g p u "f w g "v q "v j g "n k p g u "e j g e m k p i "k h "v j g "y k v j f t c y p "v q m g p "k u "c "t g y c t f  
v q m g p "d g k p i "e q o o g p v g f "q w v . "c u "u g g p "k p "v j g "u p k r r g v <

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T g e q o o g p f c v k q p u

Eqpukfgt"wpeq o o gpvkpi "vjg"vyq"nkpgu"vjcv"ejgem" y jgvjgt"vjg"vqmgp"dgkpi  
ykvjftcy p"ku"ctgyctf"vqmgp0

Mggr"kp" o kpf"vjcv"ewttgpn{"kh" fgrqukvkpi "vq"cp"wpnqemgf"nqemgt."vjg"gzrktcvkqp  
ku"ugv"vq" |gtq0"Vjku" o gcpu"vjcv"wrqp"wpeq o o gpvkpi "qh"vjg"ugeqp f"nkpg"\*  

ĐĐ↔ă

Çæ[ \*↔ăă\↔~^bYŽQŞŰ~←æ^ŸÁKKÁ€DĂăæ{ æă\ÁĐ~^æ]Q~´←æăŽŽĐábŰ~ÑæQŞŰ~←æ^ÇDİ

+. "kv  
ykn"dg"ko rquukdng"vq" ykvjftcy "vqmgpu" fgrqukvgf"vq"cp"wpnqemgf"nqemgt" ykvjqwv  
c"hgg0

Jqygxgt."vjku"nkpg"ugg o u"vq"dg"tgfwfcpv."cu"kh"c"vqmgp"ku"pqv"tgi kuvgtgf"cu"c  
tgycyf"vqmgp."wugtu"ecp"nqem"3"y gk"qh"vjg"vqmgp"vq"cxqkf"hgg"rc{ o gpv0

:040" Og fkw o "Hkp fkp i u

]O/23\_"Tgy ct fu" o ki j v"dg"vg o rqt ctkn{ "uvwem  
kp"Mq fkc m" c f c r vgt

Ugxgtkv{

Ko rcev<"Og fkw o

Nkmg nk j q q f<"Og fkw o

Fguetkrvkqp

Y j gp"wpuvcmkpi"vqmgpu"htq o "Mq fkc m."vjg"tg y ct fu"ctg"enck o gf."cu"y g"ecp  
qdugt xg"kp"vjg"eq fg"upkr r gv"dgnq y<

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ĀĀĀĀĀc
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Vjku" o gcpu"vjcv"wrqp"wpuvcmkpi."vjg"tg y ct fu"ctg"ugpv"vq"vjg" c f c r vgt"eqpvtcev0  
Ukpeg"vjg"wpuvcmg"hwpevkqp"fqgu"pqv"ugpf"vjgug"qww."vjku"dtgcmu"vjg"rtqvqeqn  
kpxctkcpv."vjcv"dgukfgu"ur gekcn"qeecukqpu."vjg" c f c r vgt"ujqwnf"pqv"jqnf"cp{"hwpfu0  
Vjg"kpxctkcpv"ecp"dg"dtqmgp"hqt" c"ujqtv"rgtkqf."wpvkn"vjg"tg y ct fu"ctg"enck o gf  
cpf"ugpv"qww"htq o "vjg" c f c r vgt0"Jqy gxgt."uq o gvk o gu"vjg"tg y ct f"eqmgevkqp"ku  
rcwugf."y jkej"y knn" o cmg"vjg"&æ\ Pæ}ăăă"hwpevkqp"ecnn"tgxgtv<

à | ^ ^ \↔~^Ā&æ\Ǽ}áääÇDĀæ[ \æā^ā→Ā^~^Ǽæ^ \āā^ \Āāæ\ | ā^bĀÇ | ↔^ \GIJYŸĀ↑æ↑~ā ]DĀ |  
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ĀĀĀĀc

Vjku"o gcpu"vjcv"ecmnp i "↔→ā↔↑"qp"Mqfkc m"cf crvgt"y qwnf"tgxgtv"cu"y gmn."o cmkpi  
vjg"tg y ct fu"uvwem"kp"vjg"cf crvgt"wpvkn"vjg"tg y ct f"eqmng evkqp"ku"wp rcwug f"kp  
Mqfkc m0"Y j kn g"kv"ku"wp fgtu vcp fcdng"vjcv"enck o kpi"htq o "Mqfkc m"fqgu"pqv"y qtm"kh  
tg y ct f"eqmng evkqp"ku"rcwug f."vjku"rtgxgpvu"tg y ct fu"cntgc f{ "rtgugpv"kp"vjg  
Cf crvgt"eqpvtcev"htq o "dgkpi"tg fgg o gf"kp"vjg"nqemgt"eqpvtcev0

Vjg"ko rcev"ku"eqpukfgtgf"o gfkwo "cu"wugtu)"tg y ct fu"y qwnf"dg"vg o rqtctkn{  
nqemgf"kp"vjg"cf crvgt"eqpvtcev"cpf"cr tqvqeqn"kp xctkcpv"ku"dtqmgp0"Vjg  
nkmgknjqqf"ku"o gfkwo "ukpeg"tg y ct f"eqmng evkqp"rcwukpi"ku"cn g i kvk o cvg"hgcvwtg"qh  
Mqfkc m"vjcv"eqwnf"dg"cevkxcvgf"cv"cp{ "vk o g"hq t"xctkqwu"tgcuppu0

## Tgeq o o gp fcvkqpu

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ecm"y knn"cn y c{u"dg"cdng"vq"ugpf"tg y ct fu"qww"htq o "vjg"eqpvtcev0

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ĀĀĀĀĀĀĀĀ | ↔^ \GIJYŸĀ↑æ↑~ā ]Āā↑~ | ^\bĀKĀ^æ}Ā | ↔^ \GIJYŸÇāæ} āāāŪ~↔æ^bĒ→æ^&\āDĪ  
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ĀĀĀĀĀĀĀĀā~āĀÇ | ↔^ \GIJĀ↔ĪĀ↔ĀJĀāæ} āāāŪ~↔æ^bĒ→æ^&\āĪĀ↔ĒĒDĀ |  
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ĀĀĀĀc

Cpqvjgt"vj kpi"vq"eqpukfgt"ku"ugpfkpi"tg y ct fu"vq"vjg"nqemgt"wrqp"wpuvcmkpi"uq  
vjg"kp xctkcpv"vjcv"vjg"cf crvgt"ujqwnf"pqv"jqnf"cuugvu"y qwnf"cn y c{u"jqnf0

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Ko rcev<"Ogfkwo

Nkmgkjqkf<"Ogfkwo

## Fguetkrvkqp

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{á|→\QŞU\á←æä"ctg"kpetgcugf"d{"vjg"coqwpv"qh"vqmgpu"dgkpi"uvcmgf0"Y jgp  
wpuvcmkpi."vjgug"lgnfu"ctg"fgetgcugf"d{"vjg"coqwpv"qh"vqmgpu"dgkpi"wpuvcmgf0  
Jqygxgt."cp"cvvcemgt"ecp"gzrnqkv"vjk"o"gejcpku"o"d{"fqpckpi"qpg"y"qk"qh"vjg  
vqmgp"vq"vjg"cfcrvgt."ngcfkpi"vq"ctkvj"ogvke"wpfgtEqy"y jgp"wpuvcmkpi"htq o"vjg  
Mqfkcm"cfcrvgt0"Vjk"yqwnf"ecwug"vjg"wpuvcmg"hwpevkqp"vq"cnyc{u"hckn"cpf"o"cmg  
vjg"uvcmgf"vqmgpu"wp"ykvj"ftcy"cdng0"Vjg"hqmqykp"i"wpkv"vguv"rtq"ngu"vjg"kuuwg<

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à| ^'\↔~^Á\æb\Ž| ^b\á←æE~UÇ
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ÁÁÁÁDÁæ[\æä^á→Á*ää^←NbÚÖÖÇŽ| bæŠ*æäá\~äDÁ|
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ÁÁÁÁÁÁÁÁ11"Mqfkcm"ygtmu
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ÁÁÁÁÁÁÁÁU\äOäæá\Bëäæá→ÇáäääæbbÇQŞŽÚŞPÓSDÊÁäääæbbÇ→~'←æäDÊÁá↑~|^Ú~æ*~b↔\Dî

ÁÁÁÁÁÁÁÁÁ] \æbĞGÁæ[ *æ'\æäPæ←ØäÁKÁ←æ'\á←GIWÇ
ÁÁÁÁÁÁÁÁÁÁÁÁáâ↔Êæ'\~äæŞá'\æäÇ
ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁäääæbbÇ→~'←æäNää*\æäDÊ
ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁdnqem0vkoguvcorÊ
ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁá↑~|^Ú~æ*~b↔\Ê
ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÖNÜÖÖÊ→~'←æäQ↔@|↔ä↔\]ŠàÇäääæbbÇ→~'←æäNää*\æäDD
ÁÁÁÁÁÁÁÁÁÁD
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ÁÁÁÁÁÁÁÁ→~'←æäÊb\á←æÇäääæbbÇÖNÜÖÖDÊÁá↑~|^Ú~æ*~b↔\Dî

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ÁÁÁÁÁÁÁÁÖNÜÖÖÊb]^'ÇDî

ÁÁÁÁÁÁÁÁU\äOäæá\Bëäæá→ÇáäääæbbÇQŞŽÚŞPÓSDÊÁäääæbbÇ→~'←æäNää*\æäDÊÁFDî

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ÁÁÁÁc
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Chvgt"twppkpi"vjg"vguv."kv"ykn"rcuu."ogcpkpi"vjg" ^b\á←æ "ecnn"jcu"tgxgtvgf"chvgt  
fqpckpi"3"y"qk"qh" QŞŽÚŞPÓŠ "vq"vjg"cfcrvgt"eqpvtcev0

Kv"ecp"cnuq"dg"l zgf"d{ "uvcmkpi"vjg"f qpcvgf"c o qwpv"d{ "vjg"nqemgt0" Y j kng"vj ku  
y qwnf" o gcp"nquv"hwpfu"hq t"vjg"nqemgt."vjg"cvvcemgt"ku"pqv"kp epgvkxk| gf"vq"ur gpf  
vj gkt"hwpfu"qp"vj gug"f qpcvkqpu0" Fwg"vq"vjg"eq o dkpcvkqp"qh"vj gug"hcevqtu."vj g  
nkmgnkjq qf"uj qwnf"dg"f gg o gf" o gfkwo0

Vjku"kuuwg"qeewtu"fwg"vq"vjg"wpkswg"ogejcpkuo"qh"uvcmkpi"kp"Mqfkcm  
\*eqo rctgf"vq"qvjgt"cfcrvgtu+0"Vjg"dguv"cr rtqcej"yqwnf"dg"vq"vtcem"uvcmg  
coqwpvu"kpvgtpcnn{"kp"vjg"Mqfkcm"cfcrvgt"eqpvtecv0"Vjg"rtqrqugf"lz"eqwnf"nqqm  
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 ĂĀĀăc

J q y g x g t . " f w g " v q " v j g " w r i t c f g c d n g " p c v w t g " q h " v j g " c f c r v g t u . " v j g " r t q r q u g f " l z  
u j q w n f " c n u q " d g " e q o d k p g f " y k v j " c f f k p i " c " & á \* " l g n f " v q " v j g " Ñ á b æ Ü á | → \ N ä á \* \ æ ä  
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## U g x g t k v {

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

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## F g u e t k r v k q p

U g x g t c n " h w p e v k q p u " v j t q w i j q w v " v j g " c r r n k e c v k q p " w u g " v j g " \ ä á ^ b ä æ ä " h w p e v k q p " v q  
v t c p u h g t " G T E 4 2 " v q m g p u 0 " J q y g x g t . " u q o g " v q m g p u " f q " p q v " t g v w t p " c " â ~ ~ ~ > " q p  
v t c p u h g t . " c p f " u k p e g " v j g " G T E 4 2 " k p v g t h c e g " g z r g e v u " v j g " â ~ ~ ~ > " t g v w t p " x c n w g . " e c n n k p i  
\ ä á ^ b ä æ ä " q p " v q m g p u " v j c v " f q " p q v " t g v w t p " c " â ~ ~ ~ > " y q w n f " t g x g t v 0 " V j g " h q n n q y k p i  
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V j g " h q n n q y k p i " h w p e v k q p u " c n u q " e c n n " \ ä á ^ b ä æ ä " q p " G T E 4 2 . " d w v " v j g " e c n n " k u " y t c r r g f  
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- ´ → ä ↔ ↑ " k p " Ñ æ ä ä ä ä ~ ↑ æ N ä á \* \ æ ä
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V j g " k o r c e v " k u " t c v g f " c u " o g f k w o " u k p e g " v j g " k u u w g " e c p " d g " t g u q n x g f " v j t q w i j " c  
e q p v t c e v " w r i t c f g . " v j q w i j " w u g t u " y q w n f " h c e g " c " v g o r q t c t { " h t g g | g " q h " v j g k t " c u u g v u  
w p v k n " v j g " l z " k u " f g r n q { g f 0 " V j g " n k m g n k j q q f " k u " j k i j " i k x g p " v j c v " p w o g t q w u " y k f g n { /  
w u g f " v q m g p u " k p " v j g " g e q u { u v g o " f q p " v " u v t k e v n { " h q n n q y " v j g " G T E 4 2 " u v c p f c t f  
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ecp"uvknn"ocmg"uqog"vtcpuhgtu"tgxgtv"vjg"yjqng"vtcpucevkqp."vjgtghqtg"eqpukfgt  
cfffkpi"chwp evkqp"vq"rwnn"vqmgpu"qvv"ugrctcvgn{0

Cnvgtpcvkxgn{."eqpukfgt"korngo gpvkpi"vjg"uchg"vtcpuhgt"hwpevkqpcnk{ "kp"vjg  
cfcrvgtu"qp">{qwt"qyp"cpf"ocmkpi"kv"pqv"tgxgtv"qp"hcknwtg."uq"vjg"vtcpuhgt"ecp"dg  
tgvtkgf"ncvgtl)

**]N/23\_"Vjg"nqemgt"qypgt"ecp"tgfktgev"cnn"hggu**  
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Vjku"ku"jqy"vjg"tghgtgt"hgg"ku"cuuki pgf"kp"vjg"DggMggrgt"hwpevkqp"/@



$\} \leftrightarrow \backslash \text{å ä å á} \} \text{Ó Ò Ö € Ç Ð}$

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**wpucmkp i lenck o kp i "ecnu**

$$P \sim \ddot{a} \leftrightarrow \acute{a} \leftarrow$$
$$\text{ÁÁÁÁÁÁÁ} \mid \Leftrightarrow^{\wedge} \backslash \text{GIJ} \text{Á} \text{á} \uparrow \sim \mid \wedge \backslash \text{Ú} \sim \text{Æ} * \sim \text{b} \Leftrightarrow \backslash \text{Á} \text{K} \text{Á} \text{Ğ} \text{Ğ} \text{Ì}$$

ÁÁÁÁÁÁÁÁU\äOåæá\bÈäæá→ÇáääãæbbÇQŞŽŮŠPÓSDÊĀáääãæbbÇ→~´←æãDÊĀá↑~|^\Ú~Ⓔæ\*~b↔\DÌ

ÁÁÁÁÁÁÁÁ11?????"Uvcmg

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ÁÁÁÁÁÁÁÁÁÁÁáâ↔Èæ^'~äæŞá'←æäÇ

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ÁÁÁÁÁÁÁÁDÌ

**Abstract**

\_\_\_\_\_ ( ) \_\_\_\_\_, \_\_\_\_\_

ÁÁÁÁc

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wpfghtn{kpi"rtqvqeqn"ujqwnf"dg"eqpukfgtgf"ukpeg"kv"eqwnf"ngcf"vq"rqvgpvkcn"kuuwgu  
kp"vjg"hwvwtg"y jgp"tgyctf"tcvgu"y qwnf"dg"wr fcvgf"cpf"tgxgtvkpi"eqwnf"dg  
ecwugf"qp"pqp/fwuv"coqwpvu0

IN/28\_ "ajcuUgvQrgtcvqt"ku"pqv"ugv"vq"vtwg

ÑÖÚU\á\↔~^Näá\*\æã

ŽǎábUæ\Š\*æǎá\~ǎ

'o c r r k p i "v q" v t c e m "k h

→ ~ ' ← æ ã

ÑÖŮU\á\↔~^Nää\*\æãÄb\á↔æÇD "hwpevkqp0"Dwv"kv)u"pqv"ugv"vq"vtwg"kp"vjg  
ÑÖŮU\á\↔~^Nää\*\æãÄ}\↔ä´áääÇD "hwpevkqp0"Eqpukfgt"wr fcvkpi "kv"vq"rtgxgpv  
→~´↔æã "htq o "ugvkvpi "vjg"qrgtcvqt"htq" ÑÖŮU\á\↔~^Nää\*\æã " o wnvkrng"vk o gu0

## JN/29\_ "Kp j g t k v k p i" **Kp k v k c n k | c d n g** "c p f f k u c d n k p i "k p k v k c n k | g t u

Cnn"cfcrvgt"eqpvtcevu"cpf" Ò~^æ]Q~´↔æã "eqpvtcev"ctg"rtqzkgu"cpf"ujqwnf"kp j g t k v  
cp" Ø^↔\↔ä↔~´áâ↔æ "eqpvtcev0"V j g k t" ↔^↔\↔ä↔~´æÇD "hwpevkqpu"ujqwnf"jcxg"cp  
↔^↔\↔ä↔~´æã " o q f k l g t0"Cnuq"kpukfg"vjg" ´~^b\ã|´\~ã "qh"vjgug"eqpvtcevu  
Žä↔bää↔æØ^↔\↔ä↔~´æãbÇD "ujqwnf"dg"ecnngf0"V j k u" y q w n f" r t g x g p v" o c n k e k q w u  
wugtu"htq o "ecnkpi "vjg" ↔^↔\↔ä↔~´æÇD "hwpevkqp"qp"vjg"ko rng o gpvcvkqp"eqpvtcevu0

## JN/2: \_ "Dnqemgf"vqmgpu"ecp"dg" fgrqukvgf"dwv ecppqv"dg" ykvj f t c y p

V j g" Ò~^æ]Q~´↔æãÈää\*~b↔\N^äQ~´↔ "hwpevkqp"fqgu"pqv"rtgxgpv" fgrqukvkpi  
dnqemgf"vqmgpu0"Uq"wugtu"ecp" fgrqukv"uwej"vqmgpu"dwv"ecp)v" ykvj f t c y "v j g o 0  
Vqmgpu" yknn"dg"dnqemgf"cv"vjg"eqpvtcev0

LLÁÁÀ | ^´\↔~^Áää\*~b↔\N^äQ~´↔ÇÁÁ  
ÁÁääääääbbŽQŞŮ~↔æ^Ê  
ÁÁ | ↔^GINŽá↑~ | ^\Šä0ääÊ  
ÁÁ | ↔^GINŽæ[ \*↔ää\↔~^  
DÁæ[ \æã^á→Á~→]Š}^æäŠäŠ\*æää\~ää |  
JÈÈÈÈL  
ÁÁÁÁ | ^´\↔~^Á}↔\ääää}QŞŮ~↔æ^ÇääääääbbÁŽQŞŮ~↔æ^ÊÁ | ↔^GINŽá↑~ | ^\Šä0äDÁæ[ \æã^á→  
LLÁÁ~→]Ů^â→~´↔æäŮ~↔æ^bÇŽQŞŮ~↔æ^D  
ÁÁÁÁ~→]Š}^æäŠäŠ\*æää\~ää

Eqpukfgt"cf f k p i "v j g" ~^→]Ů^â→~´↔æäŮ~↔æ^b " o q f k l g t "k p "v j g" äæ\*~b↔\N^äQ~´↔  
hwpevkqp0

## JN/2; \_ "V j g" **g z r k t c v k q p u** "ecp"cn y c { u "d g "n g u u v j c p" **d n q e m 0 v k o g u v c o r**

V j g" Ò~^æ]Q~´↔æãÈää\*~b↔\N^äQ~´↔ "hwpevkqp"fqgu"pqv"ejgem"kh"vjg" Žä[ \*↔ää\↔~^  
ku"nguu"vjcp"vjg"ewttgpn"vk o guvc o r0"V j k u" y c { "wugtu"ecp"cn y c { u "u g v "u w e j

à| ^` \↔~^Ãäæ\*~b↔\N^äQ~´←ÇÄÄÄÄÄÄ  
ÄÄÄÄÄÄÄääääæbbžQŞÚ~←æ^Ê  
ÄÄÄÄÄÄÄ| ↔^ \GINŽá↑~ | ^\ŠăøăÊ  
ÄÄÄÄÄÄÄ| ↔^ \GINŽæ[ \*↔ăă\↔~^  
ÄÄÄÄDÄÄæ[\ăă^ă→Ă~→]Š}^ăăšăš\*ăăă~ăĂ|

LÄÄÄÄÄÄÄ↔äÄ  
ÄÄÇÂ | ^→´ ←ăăÄBBÄæ[ \*↔ăă\↔~^bYžQŞÚ~←æ^ŸÄĶÄĈÄBBÄžæ[ \*↔ăă\↔~^ÄJÄæ[ \*↔ăă\↔~^bYžQŞÚ~←æ^ŸDÄ |  
ÄÄÄÄÄÄÄÄÄÄÄÄäæ{ăă\ĂÖ~^æ]Q~´ ←ăăžžÓ[ \*↔ăă\↔~^S~\Ră\´ă↔^&çDİ  
ÄÄÄÄÄÄÄÄc

ÄÄÄÄÄÄÄÄæ[ \*↔ăă\↔~^bYžQŞÚ~←æ^ŸÄĶÄ | ^→~´ ←ăăÄLÄČÄİÄžæ[ \*↔ăă\↔~^İ

ÄÄÄÄÄÄÄÄ11"wukpi"vtcpuhgtHtqo"htqo"GTE943"dgecwug"ucog"ukipcvwtg"hqt"GTE42  
ÄÄÄÄÄÄÄÄ11"ykvj"vjg"fkhghtgpeg"vjcv"GTE943"fggup)v"gzrgev"c"tgvwtp"xcnwg  
ÄÄÄÄÄÄÄÄÔÞOÍGFÇžQŞÚ~←æ^DÈ\ăă^bâăăöă~↑Çoui0uggfgtÊÄăăăăæbbÇ\Ả↗bdÊăă↑~ | ^\ŠăøăDİ

ÄÄÄÄÄÄÄÄÄæ↑↔\ĂÖ~^æ]Q~´ ←ăăžžæ\*~b↔\ăăçžQŞÚ~←æ^ÊĂžá↑~ | ^\ŠăøăDİ  
ÄÄÄÄÄÄÄÄÄæ↑↔\ĂÖ~^æ]Q~´ ←ăăžžQ~´ ←ăăÛ^ \↔↔çžQŞÚ~←æ^ÊĂžæ[ \*↔ăă\↔~^Dİ  
ÄÄÄÄc

**]N/32\_"Uq o g"cf crvgtu" o k i j v"dg"wpcdng"vq  
uvcmg"GTE943"vqmgpu**

à | ^ ' \ ↔ ~ ^ Á á \* \* ã ~ { æ Ç á ä ä ä ä æ b b Á \ ~ Ê Á | ↔ ^ \ G I J Á \ ~ ← æ ^ Ø ä D Á æ [ \ æ ä ^ á → Ì

à | ^ ' \ ↔ ~ ^ Á á \* \* ã ~ { æ Ç á ä ä ä æ b b Á b \* æ ^ ä æ ã Ê Á | ↔ ^ \ G I N Á { á → | æ D Á æ [ \ æ ã ^ á → Á ä æ \ | ä ^ b Á Ç â ~ ~ → D Ì

V j ku" o gcpu"v j cv"ecnnkpi" ǎ \* ǎ ~ { æ } "xkc"v j g"GTE42"kpvgthceg"qp"cp"GTE943"vqmgp  
y knn"tgxgtv."cu"v j g"GTE42"cr r tqxg"gz r gevu" c"tgvwtp"xcnw0"V j ku" y knn" o cmg"v j g  
b \ ǎ ← æ "hwpevkqpu"qh"v j g" Ñæǎǎǎǎ ~ ↑ æNǎǎ \* \ æǎ "cpf"v j g" P ~ ǎ ↔ ǎ ← Nǎǎ \* \ æǎ "wpcxcnkcdng  
hqt"GTE943"vqmgpu0

Eqpukfgt"wukpi"vjg"báàæN\*\*ã~{æ"hwpevkqp"htqo"UáàæŮăă^bàæăQ↔â"hqt  
crrtqxcnu0"Vjku"crrtqcej"yknn"yqtm"ykvj"dqvj"GTE943"cpf"GTE42"vqmgpu0

## JN/33\_"Mqfkcm"uvcmkpi"vkog"ku"pqv"cf lwuvcdng

Yjgp"uvcmkpi"vqmgpu"vq"Mqfkcm."vjg"uvcmgtejqqugu"jqy"nqpi"vjg{"ycpv"vq  
uvcmg"vjgkt"vqmgpu."cpf"vjg"uvcmkpi"onvkrnkgt"ku"vjgp"dcugf"qp"vjku"fwtcvkqp0  
Yjgp"ecnnkpi"vjg"b\á←æ"hwpevkqp"qp"vjg"Mqfkcm"cfcrvgt."vjg"uvcmkpi"vkog"ku"ugv  
vq"→~'←Ž\↔↑æŽă~ăŽ↑ă[Ž↑|→\↔\*→æăÇD)."yjej"ku"vjg"oczko"wo"rquukdng"vkog0

Vjku"ecp"dg"rtqdngocvke."cu"vjku"xcnwg"ku"ewttgpvn{"GIİĞĖĖĖ"ugeqpfu"\*52"fc{u+0  
Cnvjqwi"vjg"NR"vqmgpu"ctg"wuwcnn{"nqemgf"hqt"nqpi"gt"vjcp"52"fc{u."yg"ujqwnf  
pqv"ocmg"vjku"cuuworvkqp."gurgekcnn{"kp"vjg"ecug"y jgtg"vqmgpu"ctg"nqemgf"kp"cp  
|^→~'←æă"nqemgt0

Cpqvjgt"rtqdngon"okijv"qeewt"kh"vjku"xcnwg"ejcpi"gu"kp"vjg"hwvwtg."hqt"gzcorng  
vq"qpg"{gct0"Kh"cwugt"ycpv"gf"vq"nqem"vjgkt"vqmgpu"hqt"qpg"oqpvj."vjg{"yqwnf"pqv  
dg"cdng"vq"uvcmg"vjgo."cu"vjg"uvcmg"vkog"yqwnf"dg"nqpi"gt"vjcp"vjg"nqem"vkog0

Eqpukfgt"ikxkpi"vjg"wu"gt"vjg"qrvkqp"vq"ejqqug"vjg"nqem"vkog."hqt"gzcorng"d{  
wvknk|kpi"vjg"yknfectf"hwpevkqp0"Vjg"eqfg"upkr"rgv"dgnqy"ujqyu"jqy"vjku"eqwnf  
yqtm<

ÉÁÁÁ|↔^\\GINÁ→~´←Ů→↑æİ

ÁÁÁÁà|^´\\↔~^Áb\á←æÇÁÁÁÁÁ

ÁÁÁÁÁÁáääääæbb{á|→\Ê

ÁÁÁÁÁÁ|↔^\\GINÁ↑~|^\\

ÁÁÁÁDÁæ[\æã^á→Á~{æää↔ääÁ~^→]Q~´←æãÁ↔bŮá|→\Ůá↔→äÇ{á|→\

ÁÁÁÁÁÁÁØP~ää↔á←Ôää↑Á←~ää↔á←Ôää↑ÁKÁØP~ää↔á←Ôää↑Ç{á|→\Dİ

ÁÁÁÁÁÁÁääääæbbÁ\~←æ^ÁKÁ←~ää↔á←Ôää↑Èb\á←↔^&Ů~←æ^ÇDİ

ÁÁÁÁÁÁÁÁÓPØEÇ\~←æ^DÈ\ää^bàæãÔää~↑Ç→~´←æãÊÁääääæbbÇ\á↔bDÊÁá↑~|^\\Dİ

ÁÁÁÁÁÁÁÁÓPØEÇ\~←æ^DÈá\*~{æÇáääääæbbÇ←~ää↔á←Ôää↑DÊÁá↑~|^\\Dİ

ÊÁÁÁÁÁÁÁ←~ää↔á←Ôää↑Èb\á←æQ~´←æäÇá↑~|^\\ÊÁ←~ää↔á←Ôää↑È→~´←Ž\↔↑æŽà~ãŽ↑á[Ž↑|→\↔\*↔→æã

ÊÁÇDDİ

ÉÁÁÁÁÁÁÁ←~ää↔á←Ôää↑Èb\á←æQ~´←æäÇá↑~|^\\ÊÁ→~´←Ů→↑æDİ

ÁÁÁÁÁÁÁÁääæ\|ää^Áá↑~|^\\İ

ÁÁÁÁc

ÁÁÁÁà|^´\\↔~^Á}↔→ä´áääÇ

ÁÁÁÁÁÁÁÁääääæbbÁ{á|→\Ê

ÁÁÁÁÁÁÁÁ|↔^\\ÎÁà|^´Ê

ÁÁÁÁÁÁÁÁà]\æbÁ^á→ää\áÁää&b

ÁÁÁÁDÁæ[\æã^á→Á~{æää↔ääÁ~^→]Q~´←æãÁ↔bŮá|→\Ůá↔→äÇ{á|→\DÁ|

ÁÁÁÁÁÁÁÁØP~ää↔á←Ôää↑Á←~ää↔á←Ôää↑ÁKÁØP~ää↔á←Ôää↑Ç{á|→\Dİ

ÁÁÁÁÁÁÁÁVPPÁ[Pä←ÁKÁVPPÇ←~ää↔á←Ôää↑È[Pä←ÇDDİ

ÁÁÁÁÁÁÁÁ↔ääÇà|^´ÁKKÁ€DÁ|

ÁÁÁÁÁÁÁÁÁÁÁÁÇ|↔^\\GINÁá↑~|^\\ÊÁ|↔^\\GINÁää|ää\↔~^DÁKÁää↔Èää´~ääÇ

ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁáää&bÊ

ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÇ|↔^\\GINÊÁ|↔^\\GIND

ÁÁÁÁÁÁÁÁÁÁÁÁDİ

ÁÁÁÁÁÁÁÁÁÁÁÁ[Pä←Èääææ↑Çá↑~|^\\ÊÁää|ää\↔~^Dİ

ÁÁÁÁÁÁÁÁÁÁcÁæ→bæÁ→ääÇà|^´ÁKKÁFDÁ|

ÁÁÁÁÁÁÁÁÁÁÁÁ|↔^\\GINÁ↔^ää[ÁKÁää↔Èää´~ääÇáää&bÊÁÇ|↔^\\GINDDİ

ÁÁÁÁÁÁÁÁÁÁÁÁ[Pä←Èää↔^á↔→~æPæääæ↑Ç↔^ää[Dİ

ÁÁÁÁÁÁÁÁÁÁÁÁÓPØEÇ←~ää↔á←Ôää↑È←ä←ÇDDE\ää^bàæäÇ→~´←æãÊÁÓPØEÇ←~ää↔á←Ôää↑È←ä←

ÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÁÇDDEää→á^´æSàÇáääääæbbÇ\á↔bDDDİ

ÉÁÁÁÁÁÁÁÁcÁæ→bæÁ→ääÇà|^´ÁKKÁGDÁ|

ÉÁÁÁÁÁÁÁÁÁÁÁÁ→~´←Ů→↑æÁKÁää↔Èää´~ääÇáää&bÊÁÇ|↔^\\GINDDİ

ÁÁÁÁÁÁÁÁc

ÁÁÁÁc