

Encxg"Ugewtkv{"Tgxkg y

Rcujqx"Cwfkv" I tqwr

Eqpfwevgf"d{<"Uckf."cuv5tqu."rqpvkghz

Fgeg o dgt"45vj"4246"/"Fgeg o dgt"48vj"4246

Eqpvgpvu

30"Cdqwv"Rcu j qx"Cwfkv" I tqwr	2
40"Fkuenck o gt	2
50"Kpvtq fwevkqp	2
60"Cdqwv"Encxg	2
70"Tkum"Encuuk f ecvkqp	3
7030"K o rcev	3
7040"Nkmgnkj qqf	3
7050"Cevkqp"tgswktgf"hqt"ugxgtkv{"ngxgnu	4
80"Ugewtkv{"Cuuguu o gpv"Uw o o ct{	4
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:0"Hkpfkpiu	7
:030"Ogfkwo"Hkpfkpiu	7
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Rcu j qx"Cw fkv" I tqwr"eqpukuvu"qh" o wnvkrng"vgc o u"qh"uq o g"qh"vj g"dguv"u o ctv"eqpvtcev
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cw fkv"lqwtpg{"rquukdng"/"cnvj qwi j"322 ' "ugewtkv{"ecp"pgxgt"dg"i wctcpvggf."y g"f q
i wctcpvgg"vj g"dguv"ghhqtvu"qh"qwt"gz r gtkgpegf"tgugcte j gtu"hqt" {qwt"dnqeme j ckp
rtqvqeqn0"E j gem"qwt"rtgxkqwu" y qtm" jgtg"qt"tgcej"qww"qp"Vy kvvgt" B rcu j qxmtw o0

40"Fkuenck o gt

C"u o ctv"eqpvtcev"ugewtkv{"tgxkgy"ecp"pgxgt"xgtkh{"vj g"eq o rngvg"cdugpeg"qh
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ł pf"cu" o cp{"xwnpgtcdknkvkgu"cu"rquukdng0" Y g"ecp"pqv"i wctcpvgg"322 ' "ugewtkv{"chvgt
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qh"vj g"cr nkecvkqp)u"u o ctv"eqpvtcevu"k o rng o gpvcvkqp0

60"Cdqwv"Encxg

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vqmgp"hqt" i cu"hggv."qhhgtu"ewuvq o k|cdng"wugt"hgcvwttgu"nkmg"pkempc o gu."cpf"uk o rnk ł gu
cuugv"vtcpuhgtu"vj tqwi j"nkpm/dcugf"ujctkpi0

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
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- Ogfkwo"/"qpн{ "с"eqpfkvkqpсcmн{ "kpegpvкxk | 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"nkvnng"qt"pq"kpegpvкxg0

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

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v j g" o q f wng"tg o q xcn0"V j g" bæbb↔~^O~ | ^\æã "e j gem"ku"pgeguuct{ "vq"rtgxgpv"v j g
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J q y g x g t . " k h " ä↔báâ→æ " k u " t g x g t v g f " f w g " v q " v j g " bæbb↔~^o~|^æã " e j g e m . " v j g " o q f w n g
t g o q x c n " u v k n n " u w e e g g f u " d g e c w u g " v j g " u w e e g u u " u v c v w u " q h " v j g " ä↔báâ→æ " e c n n " k u " p q v
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Y jgp"tg o qxkpi" c" o qfwng."eqpukfgt"cf fkp i" cp" qrvkqp"*cf fkvkqpcn" rctc o+"vq
ej gem"kh"vj g" ä↔báâ↔æ" ecnn"ku"uweeguuhwn0"Cnvgtpcvkxgn{." o qxg"vj g
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cpf"äæ↑~{æÖ~←".y j k e j "ctg"tguvtkevgf"hwpevkqpu"vjcv"ecp"qp{ "dg"ecmgf"xkc"ugnh/
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ÄÄÄÄUæbb\leftrightarrow\sim^U*\text{æ}'\text{Ä}\uparrow\text{æ}\uparrow\sim\text{ä}\text{J}\text{Äb}*\text{æ}'\text{Ê}

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ÄÄÄÄ11"50"uguukqp0xcnkfcvgHggNkokv*+

ÄÄÄÄ11"Vjku"yc{."icu"guvkocvkqp"yknn"gzkv"qp"uvgr"4"kpuvgcf"qh"hcknkpi"."dwv"yknn"

ÄÄÄÄ11"uvknn"twp"vj tqwi j

ÄÄÄÄ11"oquv"qh"vjg"eqorwvcvkqp"pggfgf"vq"xcnkfcvg"vjg"uguukqp0

ÄÄÄÄ11"VQFQ<"wrfcvg"hgg"cnnqycpeg"ykvj"vjg"icunghv1tghwpf"cv"vjg"gpf"qh"

ÄÄÄÄ11"gzgewvkqp

LLLÄ\leftrightarrow\text{Ä}\text{Ç}\backslash\text{ää}^bá'\leftrightarrow\sim^{\text{Ê}}\text{ä}|\uparrow\text{áb}\backslash\text{æ}\text{ä}\text{ÄKÄ}\in\text{DÄ}|\

ÄÄÄÄÄÄ11"Kh"c"rc{ocuvgt"ku"rc{kpi"vjg"hgg"."yg"fqpv"pggf"vq"ejgem"vjg"hgg"nkokv

ÄÄÄÄÄÄ|\leftrightarrow^{\text{H}}\text{GIJÄ}\text{ä}\text{æ}\text{ÄKÄ}\backslash\text{ää}^bá'\leftrightarrow\sim^{\text{Ê}}\uparrow\text{ä}[\text{Ö}\text{æ}\text{S}\text{æ}\text{ä}\text{Ö}\text{áb}\text{ÄEÄ}\backslash\text{ää}^bá'\leftrightarrow\sim^{\text{Ê}}\&\text{áb}\text{Q}\leftrightarrow\uparrow\leftrightarrow\text{Ï}

ÄÄÄÄÄÄb*\text{æ}'\text{È}\text{ä}\text{æ}\text{Q}\leftrightarrow\uparrow\leftrightarrow\backslash\text{È}'\text{ä}\text{æ}'\leftarrow\text{N}^{\text{ä}}\text{Û}*\text{ää}\backslash\text{æ}\text{Çb}\backslash\text{ä}\backslash\text{æ}\text{È}\text{ä}\text{æ}\text{È}\text{Ä}*\text{æ}\leftrightarrow\sim\text{ä}\text{Ø}\text{ä}\text{D}\text{Ï}

ÄÄÄÄc

ÄÄc

Vjku"yknn"ecwug"vjg"hgg"nkokv"vq"pqv"yqtm"rtqrgtn{."tgswtkpi"vjg"uguukqp"mg{ecmngt"vq"rtqxf"cg"hgg"ykvjqwv"cp{"nkokv0

Tgeq o o gpf cvkqpu

Wrfcvg"vjg"äæ'←N^äÛ*ää\æ"eqpfkvkqp"vq"vjg"hqnnqykpi<

aaab~→ä↔\]
ÁĀā| ^´\↔~^Ā{ā→äā\æôææQ↔↑↔\Ç
ÁĀĀĀUæbb↔~^U\~äā&æĀb\~äā&æĀb\ā\æÊ
ÁĀĀĀŪäā^bā´\↔~^Ā´ā→äā\āĀ\äā^bā´\↔~^Ê
ÁĀĀĀUæbb↔~^U*æ´Ā↑æ↑~ā\Āb*æ´Ê
ÁĀĀĀ|↔~^IŬĤ*æä↔~äØä
ÁĀDĀ↔~^æā^ā→Ā|
ÁĀĀĀÐÐĀŪā↔bĀ↔bĀb*→\Āäā~↑Āa{ā→äā\æaĀ\~Ā*äæ{æ^Ā&ābĀæb\↔↑ā\↔~^Āäā↔|äæbÈ
ÁĀĀĀÐÐĀŪāæ^Ā\ā↔bĀ´āæ´←Ā}ābĀ*äā\Ā~àĀa{ā→äā\æaĒĀ&ābĀæb\↔↑ā\↔~^Ā´~|→äĀäā↔→Āā|æĀ\~
ÁĀĀĀÐÐĀāææĀ→↑↔\Āāæ↔^&Āb↑ā→æāĀ\āā^Ā\āæĀ|**æāĀā~|^āĀ~āĀ\āæĀ&ābĀæb\↔↑ā\↔~^Āā↔^āā\Ā
ÁĀĀĀÐÐĀbæāā´āÈ
ÁĀĀĀÐÐĀŊ\Āb*→\↔~^Ā\ā↔bĀ´āæ´←ĒĀ}æĀ´ā^Ā~\Āāā{æĀ\ā↔bĀ~äāæāĀ~āĀ~*æāā\↔~^bĀ↔^Ā
ÁĀĀĀÐÐĀa{ā→äā\æŪäā^bā´\↔~^aĭ
ÁĀĀĀÐÐĀFĒĀbæbb↔~^Ē{ā→äā\æÇD
ÁĀĀĀÐÐĀGĒĀÓOŬUNĒ\ā\Ēæ´~{æāÇD
ÁĀĀĀÐÐĀĠĒĀbæbb↔~^Ē{ā→äā\æÔææQ↔↑↔\ÇD
ÁĀĀĀÐÐĀŪā↔bĀ}ā\ĒĀ&ābĀæb\↔↑ā\↔~^Ā}↔→Āæ[\↔\Ā~^Āb\æ*ĀGĀ↔^b\æāāĀ~āĀäā↔↔~^&ĒĀâ|\Ā}↔→Ā
ÁĀĀĀÐÐĀb\↔→Āā|^Ā\āā~|&ā
ÁĀĀĀÐÐĀ↑~b\Ā~āĀ\āæĀ´~↑*|\ā\↔~^Ā^ææäæāĀ\~Ā{ā→äā\æĀ\āæĀbæbb↔~^Ē

ÁĀĀĀÐÐĀŪŠŬŠĬĀ|*äā\æĀàææĀā→~}ā^´æĀ}↔\āĀ\āæĀ&āb→æà\Ðāæà|^āĀā\Ā\āæĀæ^āĀ~āĀ
ÁĀĀĀÐÐĀæ[æ´|\↔~^
ĒĀĀĀĀ↔āĀÇ\äā^bā´\↔~^Ē*ā\↑āb\æāĀĀKĀ€DĀ|
ĒĀĀĀĀ↔āĀÇ\äā^bā´\↔~^Ē*ā\↑āb\æāĀKKĀ€DĀ|
ÁĀĀĀĀĀÐÐĀØāĀĀ*ā\↑āb\æāĀ↔bĀ*ā\↔~^Ā\āæĀàææĒĀ}æĀā~^C\Ā^ææāĀ\~Ā´āæ´←Ā\āæĀàææĀ→↑↔\
ÁĀĀĀĀĀ|↔~^GIŬĀāææĀKĀ\äā^bā´\↔~^Ē↑ā[ÔææŞæāŌābĀĒĀ\äā^bā´\↔~^Ē&ābQ↔↑↔\Ĭ
ÁĀĀĀĀĀb*æ´ÈàææQ↔↑↔\Ē´āæ´←N^äŬ*äā\æÇb\ā\æĒàææĒĀàææĒĀ*æā↔~äØäDĬ
ÁĀĀĀC
ÁĀC

**]N/23_"Ngcxkpi"vtcpukgpv"uvqtcig"unqvuykvj
 pqp|gtq"xcnwgu**

ā | ^ ^ \↔~^Āāā^ā→æŮā→↔āā |↔~^
 ĀĀĀĀĀĈā | \æbĜĀb↔&^æăĎābāĔĀĀ | \æbĀ↑æ↑~ā | Āb↔&^ā | |ăæDĀæ[\æă^ā→Ā {↔æ} Āăæ\ | ā^bĀĈā~→DĀ |
 ĀĀĀĀ11"Vjku" qpn{ "uweeggfu" kh"vjg" xcnkfcvkgpJqqm" jcu" rtgxkqwun{ "uweeggfgf" hqt"
 ĀĀĀĀ11"vjku" jcujo
 ĀĀĀĀ |↔~^GIWĀb→~\ĀKĀ |↔~^GIWĈb↔&^æăĎābāDĪ
 ĀĀĀĀ |↔~^GIWĀă~←Ĥæb |→\Ī
 ĀĀĀĀăbbæ↑ă→ |Ā |
 LLĀĀĀĀă~←Ĥæb |→\ĀĪKĀ \→~ăăĈb→~\D
 ĀĀĀĀc
 ĀĀĀĀăæ@ |↔ăæĈĀĀĀĀĀĀ
 ĀĀĀĀĀĀă~←Ĥæb |→\KKFĔ
 ĀĀĀĀĀĀĀŌă^Ĉ\ ^ā→\ă→bā | ^ ^ \↔~^ }↔\ă~ | \ ^ ā→↔&{ ā→ăă\↔~^Ď~←Ā
 ĀĀĀĀDĪ
 ĀĀĀĀăæ\ |ă^Ā\ă |æĪ
 ĀĀc

]N/24_"**uguukqpUvcvwu**"**cpf**"**uguukqpUvcvg**"**f**qgu
 pqv"**eqpukfgt**"**gzkrtguCv**

**]N/25_"Kpeqt tgev"rctc o gvgtgzvtcevkqp"hqt
f {pc o ke"v{ rgu"qxgt"54"d{ vgu**

$$\text{'åæ'} \leftarrow N^{\text{'äû*äá\æ}}$$

ā | ^ ^ ^ ↯ ~ ^ Ā ^ ā æ ^ ^ N ^ ā Ū * ā ā \ æ Ç
 Ā Ā Ā Ā O ~ ^ b \ ā ā ⇔ ^ \ Ā ↑ æ ↑ ~ ā] Ā ^ ~ ^ b \ ā ā ⇔ ^ \ È
 Ā Ā Ā Ā Ū b ā & æ Ū ā ā ^ ^ ← æ ā ā b \ ~ ā ā & æ Ā \ ā ā ^ ^ ← æ ā È
 Ā Ā Ā Ā ā] \ æ b ā ^ ā → ā ā \ ā ā ā ā \ ā È
 Ā Ā Ā Ā | ⇔ ^ \ J H ā ^ * æ ā ⇔ ~ ā
 Ā Ā D ā ⇔ ^ \ æ ā ^ ā → Ā |
 Ā Ā Ā Ā | ⇔ ^ \ G I N ā ⇔ ^ ā æ [Ā K Ā H ā É ā ^ ^ ~ ^ b \ ā ā ⇔ ^ \ È ⇔ ^ ā æ [Ā É ā Ğ G Ĭ
 Ā Ā Ā Ā ā] \ æ b Ğ G ā ^ ā ā ā ↑ Ā K ā ā] \ æ b Ğ G
 Ā Ā Ā Ā 1 1 * f c v c [k p f g z < k p f g z " - " 5 4 _ + = " 1 1 " B c w f k v " K p e q t t g e v " c u u w o r v k q p " v j c v " r c t c o g v g t " e c p " d g " g
 Ā Ā Ā Ā O ~ ^ ā ⇔ \ ⇔ ~ ^ Ā ^ ~ ^ ā ⇔ \ ⇔ ~ ^ Ā K ā ^ ~ ^ b \ ā ā ⇔ ^ \ È ^ ~ ^ ā ⇔ \ ⇔ ~ ^ Ĭ
 Ā Ā Ā Ā ā] \ æ b Ğ G ā ā ā Ū ā → | ā Ā K ā ^ ~ ^ b \ ā ā ⇔ ^ \ È ā ā Ū ā → | æ Ĭ

 Ā Ā Ā Ā È È È È
 Ā Ā c

eqpvtcevĀGzcorngĀ|
 ĀĀĀĀĀà|˘˘˘↔˘˘˘Āæ[á↑*→æô|˘˘˘↔˘˘˘
 ĀĀĀĀĀĀĀÇb|ă↔˘&Ā↑æ↑~ă]Ā\æ[\ÊĀ|↔˘\GIUYYĀ↑æ↑~ă]Ā˘|↑ăæăbDĀæ[\ăă˘ă→Ā|c

[illegible]

Ykvj k p" Uæbb↔~^Q↔âĒ{á↔→ää\æ."kv"ej gemu" \ää^bá´\↔~^Ē~"vq"gpuwtg"kv"ku"pqv"ugv
vq" ↑b&Ēbæ^ääã."rtgxgpvkpi"ecmngtu"htq o"cdwukpi"uguukqp"mg{u"vq"cf o kpkuvgt"vjg
u o ctv"cee qwpv0"J q y gxgt."kv"cnnq y u" \ää^bá´\↔~^Ē~"vq"dg"ugv"vq
Uæbb↔~^Pæ]Üâ↔→ää\~ã."y j ke j"eqwnf"gpcdng"ecmngtu"vq"etgcvg"cf fkvkqpcn"uguukqp
mg{u"y kv j"wptguvtkevgf"ecnnu"kh"cnnq y gf0

à|`^↔~^Ā{ā→ää\æÇ
ĀĀĀĀUæbb↔~^U\~ää&æĀb\~ää&æĀb\á\æÊ
ĀĀĀĀŮää^bá'\↔~^Ā'á→ää\ĀĀ\ää^bá'\↔~^Ê
ĀĀĀĀUæbb↔~^U*æ'Ā↑æ↑~ăĴĀb*æ'Ê
ĀĀĀĀ|↔~^JHYŸĀ↑æ↑~ăĴĀ*æă↔~ăØăb
ĀĀDĀ↔~^æă^ă→Ā|
ĀĀĀĀ11"Jgtg"yg"cffkvkqpcnn{"rcuu"wkpv86]_"rgtkqfKf"vq"ejgem"cnnqycpeg"nkokvu

ĀĀĀĀ11"rgtkqfKfu]2_"ku"hqt"hgg"nkokv.
ĀĀĀĀ11"rgtkqfKfu]3_"ku"hqt"xcnwg"nkokv.
ĀĀĀĀ11"rgtkqfKfu]4<_"ctg"hqt"ecnn"eqpuvtckpvu"."kh"vjgtg"ctg"cp{0
ĀĀĀĀ11"Kv"ku"tgswktgf"vq"rcuu"vjgo"kp"
ĀĀĀĀ11*kpuvgcf"qh"eqorwvkpi"xkc"dnqem0vkoguvcor+"ukpeg"fwtkpi"xcnkfcvkqp
ĀĀĀĀ11"yg"ecp"qpn{"cuugtv"vjg"tcpig"qh"vjg"vkoguvcor"."dwv"pqv"ceeguu"kvu"xcnwg0

ĀĀĀĀăæ@|↔ăæÇb\á\æÊb\á\|bYoui0ugpfgtŸĀKKĀU\á\|bÈN'\↔{æÊĀĀUæbb↔~^Ā↔bĀ^~\Āá'\↔{æĀDĪ
ĀĀĀĀŮ↔↑æb\á↑*Nbbæă\æăQ~'ă\~ăÈ~'ă\æÇDÈăbbæă\Ů↔↑æb\á↑*Ø^Pă^&æÇeÊĀb*æ'Èæ[*↔ăæbN\DĪ

ĀĀĀĀăăăăæbbĀ\ăă&æĀKĀăăăăæbbÇ|↔~^FIJ€Ç\ää^bá'\↔~^È\~DDĪ

ĀĀĀĀ↔ăĀÇ\ää^bá'\↔~^Ê*á\↑áb\æăØ^*|\Ē→æ^&\ăĀLKĀHDĀ|
ĀĀĀĀĀĀâ|\æbHĀ*á\↑áb\æăØ^*|\Uæ→æ'\~ăĀKĀâ|\æbHÇ\ää^bá'\↔~^Ê*á\↑áb\æăØ^*|\Y€İHYDĪ
ĀĀĀĀĀĀăæ@|↔ăæÇ
ĀĀĀĀĀĀĀĀ*á\↑áb\æăØ^*|\Uæ→æ'\~ăĀĀKĀØŞá\↑áb\æăÔ→~}Èă**ă~{ă→ŊábæăÈæ→æ'\~ăÊ
ĀĀĀĀĀĀĀĀĀN*~*ă~{ă→ĀăăbæăĀ*á\↑áb\æăĀă→~}Ā^~\Āă→~}æăĀ
ĀĀĀĀĀĀDĪ
ĀĀĀĀc

ĀĀĀĀ↔ăĀÇ\ää^bá'\↔~^Êăă\ăĒ→æ^&\ăĀLKĀHDĀ|
ĀĀĀĀĀĀ11"Fkucnnqy"ugnh/vctigvkpi"vtcpucevkqpu"ykvj"uguukqp"mg{u"cu"vjgug"jcxg"
ĀĀĀĀĀĀ11"vjg"cdknkv{"vq"cfokpkuvgt
ĀĀĀĀĀĀ11"vjg"uoctv"ceeqwpv0
LLĀĀĀĀăæ@|↔ăæÇăăăăæbbÇ|↔~^FIJ€
ĀĀÇ\ää^bá'\↔~^È\~DDĀĀKĀoui0ugpfgtÊĀĀOă^Ā^~\Ā\ăă&æ\Ābæ→ăĀDĪ

ĀĀĀ11"000
ĀĀc

Eqpukfgt"tgxgtvkpi"kh" \ää^bá'\↔~^È\~ "ku"ugv"vq"vjg" Uæbb↔~^Pæ]Ůă→ää\~ă
cfftguu()