

**Rw o r"Uekgpeg"Ugewtkv{ "Tgxkg y**

**Rcujqx"Cwfkv" I tqwr**

Eqpfwevgf"d{<"fghuge."Mqqngz."|jcqlkq

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



# Eqpvgpvu

---

30"Cdqwv"Rcu j qx"Cwfkv" I tqwr	2
40"Fkuenck o gt	2
50"Kpvtqfwevkqp	2
60"Cdqwv"Rw o r"Uekgpeg	2
70"Tkum"Encuuk f ecvkqp	3
7030"K o rcev	3
7040"Nkmgnkjqqf	3
7050"Cevkqp"tgs wktgf"hqt"ugxg tkv{"ngxgnu	4
80"Ugewtkv{"Cuuguu o gpv"Uw o o ct{	5
90"Gzgewvkg"Uw o o ct{	6
:0"Hkpfkpiu	8
:030"Etkvkecn"Hkpfkpiu	8
JE/23_"Nqem"rqqn"ecp"dg"FqUgf	8
:040"Jki j"Hkpfkpiu	10
JJ/23_"Fktgev"UQN"vtcpuhgtu"vq"dqpfkpi"ewtxg"guetqy"ecp dtgcm"rtqvqeqn"kp xctkcpv	10
JJ/24_"Dqpfkpi"Ewtxg"FQU"vj tqwi j"guetqy"rtg/hwpfkpi	11
JJ/25_"Wpwugf"htgg g"cwvj qtkv{"tgxqecvkqp"etgcvgu"vqmgp nqem"tkum	12
:050"Ogfkwo"Hkpfkpiu	13
JO/23_"Uvctv"unqv"xcnkfcvkqp"cmnqyu"rcuv"unqvu	13
JO/24_"FQU"qh"EtgcvgDqpfkpiEwtxg	14
:060"Nqy"Hkpfkpiu	15
JN/23_"Kpuwh f ekgpv"UQN"dcncpeg"ejgem"kipqtgu"tgpv gzg o rvkqp	15
JN/24_"Kpuwh f ekgpv"xcnkfcvkqp"kp"i nqdcn"rctc o gygt"wr fcvgu	15
JN/25_"Uvcvg"Kpeqpukuv gpe{"Fwg"vq"Uqncpc"Txnndcem	16
JN/26_"Kpuwh f ekgpv"Vqmgp"Ceeqwpv"xcnkfcvkqp"kp"rqqn kpkvkcnk cvkqp	17
JN/27_"Vjg" I nqdcn"Ceeqwpv" o c{"dg"kpvkcnk gf"gctn{"d{ vjg"cvvcemgt	



# 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" B rcu j qxmtw o0

# 40"Fkuenck o gt

---

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  
ł pf"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" ł pf"cp{"rtqdng o u"y kv j" { qwt"u o ctv"eqpvtcevu0  
Uwdugswgpv"ugewtkv{"tgxkgy u."dw i"dqwpv{"rtqi tc o u"cpf"qp/ej ckp" o qpkvqtkpi"ctg  
uvtqpin{"tgeq o o gpfgf0

# 50"Kpvtq fwevkqp

---

C"vk o g/dqzgf"ugewtkv{"tgxkgy"qh"v j g" o qngewngr tqvqeqnlrw o r/uekgpeg/eqpvtcev  
tgrqkvqt{"y cu"fqp g"d{"Rcu j qx"Cw fkv" I tqwr."y kv j" 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"Rw o r"Uekgpeg

---

Rw o r"Uekgpeg"ku" c"Uqncpc/dcugf"htc o g y qtm"v j cv" hceknkvcvgu"vqmgp"ncwpe j gu" y kv j" c  
dqpfkpi"ewtxg."f { pc o ke"hgg"uvtwevwtgu"cpf"cwvq o cvgf"nkswkfkv{" o cpc i g o gpv0"Kv  
y qtmu"d{"wukpi" c"eqpuvcpv"rtqfwev"dqpfkpi"ewtxg"y jgtg"vqmgp"cpf"UQN"tgugtxgu  
f { pc o kecn{"cflwuv"dcugf"qp"rwtej cugu0



# 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"hwpvkqpсnkν{ "qh"vjg"rtqvqeqn"ku"chhgevgf0
- Nqy"/"ecp"ngcf"vq"сp{ "mkpf"qh"wpgzrgevgf"dgjcxkqt"ykvj"uqog"qh"vjg"rtqvqeqn)u hwpvkqpсnkνkgu"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{ "kpegpvkxk | gf"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"nkvnng"qt"pq"kpegpvkxg0



7050"Cevkqp"tgs wktgf"hqt"ugxg tkv{"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"/"76fch3d;5eh8cdh;77e8;h265h95d6fh893h;9h9

łzgu"tgxkgy"eqo okv"jcu j"/"g952d8d3c6:74f57f27ec523;g64g4;d;5e;e5f3

## Ueqrg

Vjg"hqnmqykp i"u o ctv"eqpvtcevu"ygtg"kp"ueqrg"qh"vjg"cwfkv<

- | \<=>→Eāb
- →&→āEāb
- æ{æ^ \bEāb
- æāā~ābEāb
- ´~^b \ā^ \bEāb
- }ā↔ \æ↔→b \Eāb
- ↑~āEāb
- ↑æ \æ~āāEāb
- &→~āā→Eāb
- b \ā | ´ \bEāb
- ↑~āEāb
- →~´←æāEāb
- ´ | ā {æEāb
- ´āæā \æŽ\*~→Eāb
- →~´←Ž\*~→Eāb
- ´āæā \æŽâ~^â↔^&Ž´ | ā {æEāb
- ↑~āEāb
- b}ā\*Eāb
- āāāŽ}→Eāb
- ↔^↔ \↔ā↔→~æEāb
- āæ↑~{æŽ}→Eāb
- bæ \Ž\*āāā↑bEāb



# 90"Gzgewvkxg"Uw o o ct{

Qxgt"vjg"eqwtug"qh"vjg"ugewtkv{"tgxkgy."fghuge."Mqqngz."|jcqlkq"gpicigf"ykvj  
Oqngewng"C I "vq"tgxkgy "Rw o r"Uekgpeg0"Kp"vjku"rgtkqf"qh"vk o g"c"vqvcn"qh"33"kuuwgu  
ygtg"wpeqxgtgf0

## Rtqvqeqn"Uw o o ct{

Rtqvqeqn Pc o g	Rw o r"Uekgpeg
Tgrqukvqt{	jwru<llikvjwd0eq o l o qngewngrtqvqeqnlrw o r/uekgpeg/ eqpvtcev
Fcvg	Fgeg o dgt"46vj"4246"/"Lcpwct{"4pf"4246
Rtqvqeqn"V{ rg	Dqpfkpi"Ewtxg"hwpftckukpi

## Hkp fkp i u"Eqwpv

Ugxgtkv{	C o qwpv
Etkvkecn	3
Jki j	5
Ogfkwo	4
Nqy	7
Vqvcn"Hkp fkp i u	33



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

KF	Vkvng	Ugxgtkv{	Uvcvwu
]E/23_	Nqem"rqqn"ecp"dg"FqUgf	Etkvkecn	Tguqnxgf
]J/23_	Fktgev"UQN"vtcpuhgtu"vq"dqpfkpi"ewtxg guetqy"ecp"dtgcm"rtqvqeqn"kp xctkcpv	Jki j	Tguqnxgf
]J/24_	Dqpfkpi"Ewtxg"FQU"vj tqw i j "guetqy"rtg/ hwpfkpi	Jki j	Tguqnxgf
]J/25_	Wpwugf"htgg g"cwvj qtkv{"tgxqecvkqp"etgcvgu vqmgp"nqem"tkum	Jki j	Tguqnxgf
]O/23_	Uvctv"unqv"xcnkfcvkqp"cnnqyu"rcuv"unqvu	Ogfkwo	Tguqnxgf
]O/24_	FQU"qh"EtgcvgDqpfkpiEwtxg	Ogfkwo	Tguqnxgf
]N/23_	Kpuwhlekgpv"UQN"dcncpeg"ejgem"kipqtgu"tgpv gzgo rvkqp	Nqy	Tguqnxgf
]N/24_	Kpuwhlekgpv"xcnkfcvkqp"kp"inqdcn"rctcogvgt wrfcvgu	Nqy	Tguqnxgf
]N/25_	Uvcvg"Kpeqpukuvgpe{"Fwg"vq"Uqncpc"Tqnnccem	Nqy	Tguqnxgf
]N/26_	Kpuwhlekgpv"Vqmgp"Ceeqwpv"xcnkfcvkqp"kp rqqn"kpkvkcnk cvkqp	Nqy	Tguqnxgf
]N/27_	Vjg" Inqdcn"Ceeqwpv"oc{"dg"kpkvkcnk gf gctn{"d{"vjg"cvvcemgt	Nqy	Tguqnxgf



**: 0" Hkp fkp i u**

**:030"Et kvkecn"Hkp fkp i u**

]E/23\_"Nqem"rqqn"ecp"dg"FqUgf

Ugxtkv{

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

Nkmgkn.jqqf<"Jki j

**Fguetkrvkqp**

kp"vjg"nqemarrqqn"kpuvtwevkqp."vjg"etgcvkqp"qh"cp"Cuuqekcvgf"Vqmgp"Ceeqwpv  
 \*CVC+"hqt"NR"vqmgpu"tgngku"qp"ejgemkpi"vjg"nc o r q t v"dcncpeg"vq"fgvgt o kpg"kh"vjg  
 ceeqwpv"gzkuvu0"Vjg"ejgem" "\[ Èá´´~|^bÈæb´ã~}Ž{á|→\È&æ\Ž→á↑\*~ã\bÇDÁKKÁE  
 ku"wugf"vq"fgekfg"y jgvjgt"vq"etgcvg"vjg"CVC0

[illegible]

rtg itc oul r w o r /uekgpeglutelkpvtwevkqpul o k i tcvkqplngemarrqgn0tu%N379

V jku"ku" r tqdng o cvke"dgecwug<



- Cp"cwcmgt"ecp"rtgxgpv"CVC"etgcvkqp"d{"ugpfkpi"UQN"vq"vjg"guetqy axcwnv cfftguu"dghqtgjcpf
- Jcxkpi"UQN"kp"cp"cfftguu"fqgup)v"iwctcpvgg"c"rtqrgtn{"kpkvkcnk|gf"Vqmgp Ceeqwpv
- Ykvjqwv"c"rtqrgtn{"kpkvkcnk|gf"CVC."vjg"nqemkpi"ogejcpkuo"yqwnf"hckn"ukpeg vjgtg"yqwnf"dg"pq"xcnkf"vqmgp"ceeqwpv"vq"tgegkxg"vjg"NR"vqmgpu

Cu"c"tguwnv."vjg"nqem"rqqn"yqwnf"dg"FqUgf0

## Tgeq o o gpfcvkqpu

Tgrnceg"vjg"ewttgpv"ko rng o gpvcvkqp"ykvj" ´ãæā\æŽ↔äæ↑\*~\æ^\'"ykej"uchgn{ jcpfngu"CVC"etgcvkqp"tgictfnguu"qh"nc o rqtv"dcncpeg0



**] J /23\_ "Fktgev"UQN"vtcpuhgtu"vq"dqpfkpi  
 ewtxg"guetqy"ecp"dtgcm"rtqvqeqn"kpxc tkcpv**

Cff"c"engcpwr"hwpevkqp"vjcv"ecp"u{pej tqpk|g"ãæá→Žb~→Žãæbæã{æb"ykvj"vjg  
cevwcn"nc o r qtv"dcncpeg"kh"pggfgf0



# ]J/24\_"Dqp fkp i"Ewt xg" FQU"v j tqw i j"guetq y r tg/hwp fkp i

## Ugxgtkv{

Ko rcev<"Jki j

Nkmg nk jqq f<"Og fkw o

## Fguetkrvkqp

Vjg"uqnaguetq y"ceeqwpv"ecp"dg"rtgg o rvkxgn{"hwpfgf"ykvj"UQN"d{"cp"cwvcemgt  
dghqtg"vjg"dqp fkp i"ewtxg"ku"etgcvgf0"Ukpeg"vjg" ´ ää\æžâ~^ä↔^&ž´ | ä{æ  
kpuvtwevkqp"kpvkcnk | gu" ää→žb~→žäæbä{æb"vq"2."dwv"vjg"kp xctkcpv"ejgem"xg tk l gu  
vjcv"vjg"cevwcn"UQN"dcncpeg"o cvejgu"vjku"xcnwg."vjg"rtgugpeg"qh"cp{"UQN"kp"vjg  
guetq y"ceeqwpv"y knn"ecwug"vjg"ewtxg"etgcvkqp"vq"hckn0

Vjku"ku"rqqukdng"dgecwug<

- Vjg"uqnaguetq y"RFC"cf f tguu"ku"fgvgt o kpkuve"cpf"ecp"dg"ecnewncvgf"d{  
cp{qpg"y j q"mpq y u"vjg"o kp v"cf f tguu
- Cp{qpg"ecp"ugpf"UQN"vq"vjku"cf f tguu"dghqtg"vjg"ewtxg"ku"etgcvgf
- Vjg"kp xctkcpv"uvtkvn{"gphqtegu" b~→žæb´ ä~ } ž→á↑\*~ä\bÄKKÄää→žb~→žäæbä{æb

Eqfg"upkr r gvu<

```
11"Kp"etgcvgadqpfkpiawtxg0tu
rwdÄhpÄÄÄ^ä→æäÇÄÄ
ÄÄ´\[ iEgpgvzvJOää\æÑ~^ä↔^&O | ä{æLÊ
ÄÄ*äää↑b iEgcvgDqp fkp iEwt xgRctcou
DÄÊLÄPæb|→\JÇ
ÄÄÄÄ11"tgcnaugnatgugtxgu"kp vkcnk/gf"vq"2
ÄÄÄÄ´\[Eä´´~|~\bÈä~^ä↔^&ž´ | ä{æÈ | *ää\æžâ~^ž*äää↑bÇÈÈÈDÌ
ÄÄÄÄ
ÄÄÄÄ11"Kpxctkcpv"ejgem"yknn" hckn"kh"guetqy"jcu"UQN
ÄÄÄÄÑ~^ä↔^&O | ä{æi i↔{ ää↔ä^\Ç→~´←æäDLÌ
c

11"Kp"ewtxg0tu
rwdÄhpÄÄÄ{ ää↔ä^\JÇ↔^ä~LÇ´\[ iÄBowvÄÑ~^ä↔^&O | ä{æQ~´←æäO\JÇ↔^ä~LDÄÊLÄPæb|→\JÇDLÄ |
ÄÄÄÄkhÄb~→žæb´ ä~ } ž→á↑*~ä\bÄÄKÄä~^ä↔^&ž´ | ä{æÈää→žb~→žäæbä{æbÄ |
ÄÄÄÄÄÄÄÄÄtgwtpÄÖääÇO~^\ää´\óää~äi iÑ~^ä↔^&O | ä{æØ{ ää↔ä^\È↔^~\ÇDDÌ
ÄÄÄÄc
c
```

## Tgeq o o gp f cvkqpu



Kpkvkcnk | g" āāā→žb→žāābāā { āb "vq" o cvej "cp { "gzkuvkpi "UQN" dncpeg "kp" vj g" guetqy  
fwtkpi "etgcvkqp0

Kh"vj cv)u"pqv" fguktdng."c f f" c"UQN"u y ggr" o ge j cpku o "fwtkpi "ewtxg"etgcvkqp"vj cv  
vtcpuhgtu"cp { "gzkuvkpi "UQN"vq"vj g"etgcvqt."hqt"gzc o rng<

- Ej gem"kh"vj gtg)u"cp { "gzkuvkpi "UQN"kp"vj g" guetqy
- Kh"hqwpf."u y ggr"kv"vq"vj g"etgcvqtlcf o kp"wukpi "c"uki pgf"ERK
- Vj gp"eqpvkpwg" y kvj "tgi wnct"ewtxg"etgcvkqp

## ] J /25\_ "Wpwugf"htgg | g"cwvj qtkv { "tgxqecvkqp etgcvgu"vqmgp"nqem"tkum

---

### Ugxgtkv {

Ko rcev<"Jki j

Nkmgkjqqf<"Ogfkwo

### Fguetkrvkqp

Vj g"eqfgdcug"kpenwfgu" c" āā { ~←æžāāāā~ æžā | \ā~ā↔\ ] "hwpevkqp"kp" →~´←āāÈāb  
vj cv"ku"pqv"dgkpi "ecnngf"fwtkpi "rqqn"etgcvkqp."fgurkvg"dgkpi "pgeguuct { "vq"rtgxgpv  
vqmgpu"htq o "dgkpi "htq | gp"chvgt" o ki tcvkqp0

Kh"vj g"htgg | g"cwvj qtkv { "ku"pqv"tgxqmgf<

- Vj g"dqpfkpi "ewtxg"rtqi tc o "tgvc KPU"vj g"cdknkv { "vq"htgg | g"vqmgp"ceeqwpvu
- Vj ku"eqwnf"rqvgpvkcnn { "dg"wugf"vq"nqem"wugt"vqmgpu"chvgt" o ki tcvkqp
- Iqgu"ci ckpuv"vj g"kpvgpfgf"fgukip" y jgtg"nqemkpi "ujqwnf"qp { "dg"rquukdng  
fwtkpi "rtg/vtcfkpi

Eqfg"Nqecvkqp"<"nqemgt0tu%N:5

### Tgeq o o gpfcvkqpu

Kv)u"tgeq o o gpfgf"vj cv"vj g"htgg | g"cwvj qtkv { "tgxqecvkqp"ecnn"dg"cf fgf0



:050" Og fkw o "Hkp fkp i u

]O/23\_"Uvctv"unqv"xcnk f cvkqp"cnmq y u"r cuv"unqvu

Ugxgtkv{

Ko rcev<"Og fkw o

Nkmgk j qq f<"Og fkw o

Fguetkrvkqp

Vjg"rtqvqeqn"ko rng o gpvu"chgg"uejgfwnv"vjcv"ujqwnf"rtqi tguu"htq o "jki j"hggu  
\* ; ; ' + "vq"nq y "hggu"\*3 ' + "qxgt"vk o g"dcugf"qp"unqvu"rcuugf"ukpeg"ncwpej0  
Jqy gxgt."vjg"ewttgpn"ko rng o gpvcvkqp"xcnk f cvgu"vjg"b\ää\žb→~\" rctc o gvg  
kpeqtgevn{<

```
rwdÄhpÄ{ä→ää\æÇBbæ→äÊÄ*äää↑bİÄBÉtgcvgDqpfkpiEwtxgRctcouDÄËLÄbæb|→\JÇDLÄ|
ÄÄÄÄngvÄ'→~'←ÄKÄO→~'←İİ&æ\ÇDEİ
ÄÄÄÄ11"xcnkf cvg"uvctv"vkog"
ÄÄÄÄkhÄngvÄU~↑æÇb\ää\žb→~\DÄKÄ*äää↑bÈb\ää\žb→~\Ä|
ÄÄÄÄÄÄÄÄäæ@|→ääÄÇb\ää\žb→~\ÄJKÄ'→~'←Èb→~\ÊÄO~^äá'\óää~äi i0^{\ä→äU\ää\Ú→↑æD
ÄÄÄÄc
ÄÄÄÄ11"000
c
```

Vjku"xcnk f cvkqp"qp{n{"gpuwtgu"vjg"uvctvaunqv"ku"pqv"kp"vjg"hwvwtg"\*b\ää\žb→~\ÄJK  
'→~'←Èb→~\+. "o gcpkpi"etgcvqtu"ecp"ugv"cu"uvctv"unqv"het"kp"vjg"rcuv0"Vjku"dtgcmu  
vjg"kpvgpf gf"hggrtqi tguukqp"ukpeg"b→~\bž\*äbbæääKÄ' | ääæ^ \žb→~\ÄË  
b\ää\žb→~\" yqwnf"ko o gfkcvgn{"uvctv"cv"cnvgt"hgguvc i g0

Hqt"gzco rng<"Vjg"ewttgpn"unqv"ku"3222

- Etgcvqt"ugvu"uvctvaunqv"vq":22"Vjg"İtuv"vtcf g"qeewtu"cv"unqv"3222."unqvuar cuugf  
?"3222"/":22"?"422
- Vjku"o gcpu"vtcfkpi"uvctvu"kp"Rjcu g"4"\*ç7 ' "hg g+"kpugcf"qh"Rjcu g"3"\* ; ; ' "hg g+

Tgeq o o gp f cvkqpu

Vjg"uvctv"unqv"xcnk f cvkqp"ujqwnf"dg"wr f cvgf"vq"qp{n{"cnmq y "uvctv"unqvu"ykvj kp"cu  
u o cnm"tcp i g"qh"vjg"ewttgpn"unqv."gpuwtkpi"vjg"hg g"uejgfwnv"uvctvu"htq o "Rjcu g"3"cu



]**O/24\_**"**FQU**"qh"**E**tgcv**gD**qp**f**kp**i**Ewt**xg**

Nkmgнкjqqf<"Ogfkwo

Vjg"Oãæá\æñ~^ä↔^&O|ã{æ"kpvtwevkqp"tgs wktgu"rcuukpi

$$\hat{a} \sim^{\wedge} \ddot{a} \Leftrightarrow^{\wedge} \& \check{Z}' \mid \tilde{a} \{ \ae \check{Z} \setminus \sim \leftarrow \ae^{\wedge} \check{Z} \acute{a}'' \sim \mid ^{\wedge} \setminus <$$

ÄYä´´~|´^Ç  
 ÄÄÄÄÄÄÄÄ↔^↔\ÊÄ  
 ÄÄÄÄÄÄÄÄ\*ä]æäÄKÄ´äæä\~äÊ  
 ÄÄÄÄÄÄÄÄäbb~´↔ä\æäŽ\~←æ^i i↑↔^\'ÄKÄ↑↔^\'Ê  
 ÄÄÄÄÄÄÄÄäbb~´↔ä\æäŽ\~←æ^i iä|\'ä~ä↔|\'ÄKÄä~^ä↔^&Ž´|ä{æÊ  
 ÄÄÄÄDÿ  
 ÄÄÄÄä~^ä↔^&Ž´|ä{æŽ\~←æ^Žä´´~|´^iÄÑ~[JN´´~|´^JC↔^ä~ÊÄÜ~←æ^N´´~|´^LLÊ

$$\hat{a} \sim \hat{a} \leftrightarrow \hat{a} \& \check{Z} \mid \check{a} \{ \check{a} \check{Z} \setminus \sim \check{a} \hat{Z} \hat{a} \prime \sim \mid \wedge \setminus "wugu" \hat{a} b b \sim \prime \leftrightarrow \hat{a} \setminus \check{a} \check{a} \check{Z} \setminus \sim \check{a} \wedge i i \uparrow \leftrightarrow \wedge \setminus "cpf$$

ább~'↔á\æäŽ\~←æ^ííá|\å~ã↔\]".uq"vjg"Ű←æ^N' '~|^\"ecp"dgetgcvgf"kp

```
cfxcepeg0"Kh"vjku"cntgcf{"gzkuvu."etgcvkpi"vjg"hwpevkqp"yknn"hckn"dgecwug"kpkv"kuwugf0
```

Cp"cwvcemgt"ecp"gzvtcev"vjg"ecnewncvgf"â~^ä↔&Ž' | ä{æ"cf ftguu"cpf"etgcvg"c

Ū~æ^N'~^\"vq"rtgxgpv"wugtu"htq o "etgcvkpi"c"Dqpfkpi"Ewtxg0

**Tgeq o o gp f cvkqpu**

ÄYä´´~|`^Ç  
 ÊÄÄÄÄÄÄÄÄ↔↔↔\ÊÄ  
 ÊÄÄÄÄÄÄÄÄ↔↔↔\Ž↔äŽ`ææäæäÊ  
 ÆÄÄÄÄÄÄÄ\*ä]æäÄKÄ´äæä~äÊ  
 ÄÄÄÄÄÄÄÄäbb~´↔ä\æäŽ\~←æ^i i↑↔^`ÄKÄ↑↔^`Ê  
 ÄÄÄÄÄÄÄÄäbb~´↔ä\æäŽ\~←æ^i iä|`ä~ä↔\]ÄKÄä~ä↔^&Ž´|ä{æÊ  
 ÄÄÄÄDŸ  
 ÄÄÄÄä~ä↔^&Ž´|ä{æŽ\~←æ^Žä´´~|`^iÄŸ~[JN´´~|`^JC↔ä~ÊÄÜ~←æ^N´´~|`^LLÊäaa



:060"Nq y "Hkp fkp i u

## JN/23\_"Kpuwhłekgpv"UQN"dcncpeg"ej gem k i pqtgu"tgpv"gzg o rvkqp

Kp"vjg"u y c r"hwpevkqp)u"dw{"vqmgpu"xcnk fcvkqp."vjg"eqfg"qp{"ej gemu"kh"vjg"wugt)u  
vqvcn"UQN"dcncpeg"ku"uwłekgpv"hqt"vjg"u y c r" c o qwpv."ykvjqwv"eqpukfgtkpi"tgpv  
gzg o rvkqp<

ãæ@|↔ãæÂÇ  
ĀĀĀĀ´\ [Ēā´´~| ^\bÈ | bæāĒ&æ\Ž→ā↑\*~ā\bÇDĀLKĀæ[ ā´\Ž↔^Žā↑~| ^\Ē  
ĀĀĀĀO~^\'āā´\Ōāā~āi i Ø^b | āā↔´↔æ^\ŪbæāUŠQĒ  
DĪ

rtqi tc oul rw o r/uekgpeg lute lkp uvtwevkqpulewtxglu y c r0tu%N399

Vjku"ej gem"wugu"&æ\Ž→ā↑\*~ā\bÇD" y jkej"tgwvtpu"vjg"vqvcn"dcncpeg"kpenw fkp i "vjg  
tgpv"gzg o rvkqp" c o qwpv0"Vjg"vtcpucev kqp" y knn"uweeggf"gxgp"kh"kv"fg r ngvgu"vjg  
cee qwpv" dgnqy"tgpv"gzg o rvkqp."ecwukpi"vjg"cee qwpv"vq<

- Gpvgt"c"ppp/tgpv/gzg o rv"uvcvg
- Igv"ejct igf"tgpv"qxgt"vk o g"d{"vjg"Uqncpc"twpvk o g."gxgpvwcn{"dg"rwt igf"kh  
vjg"dcncpeg"ku"hwmm{"fg r ngvgf0

Cff"c" o qtg"eq o rtg j gpukxg"dcncpeg"ej gem"vjcv"cee qwpvu" hqt"tgpv"gzg o rvkqp<

ngvĀāæ^\ĀKĀĒæ^\i i &æ\ÇDĒĪ  
ngvĀ↑↔^Žāæ^\ĀKĀāæ^\Ē↑↔^↔↑ | ↑Žāā→ā^´æ  
11\*2+= "11" 2" hqt" fcv c" uk / g" ukpeg" v jku" ku" lwuv" c" pcvkxg" UQN" cee qwpv  
ãæ@|↔ãæÂÇ  
ĀĀĀĀ´\ [Ēā´´~| ^\bÈ | bæāĒ&æ\Ž→ā↑\*~ā\bÇDĀLKĀæ[ ā´\Ž↔^Žā↑~| ^\Ē´āæ´←æāŽāāā  
ĀĀĀĀĀÇ↑↔^Žāæ^\DĒ | ^ } āā\*ÇDĒ  
ĀĀĀĀO~^\'āā´\Ōāā~āi i Ø^b | āā↔´↔æ^\ŪbæāUŠQĒ  
DĪ

## JN/24\_"Kpuwhłekgpv"xcnk fcvkqp"kp" i nqdcn rctc o gvg t"wr fcvgu



Vjg"bæ\ž\*áãá↑b"hwpevkqp"cnnyu"wr fcvkpi"rtqvqeqn"rctc o gvgtu"ykvjqwv"rtqrgt  
xcnkfcvkqp<

```
rwđÁhpÁbæ\ž*áãá↑b
ÁÁÇ´\ [ íÁEqpvvgzvJUæ\šáãá↑bLÊÁ*áãá↑bíÁInqdcnUgvvkpiuKprwvDÁĖLÁĤæb|→\JÇDLÁ|
ÁÁÁÁUæ\šáãá↑bííáá^ä→æäÇ´\ [ ÊÁ*áãá↑bD
c
```

Nqqmkpi"cv"vjg"Ö→~âá→Uæ\↔^&bø^\*|\\"uvtwev<

```
rwđÁuvtwevÁInqdcnUgvvkpiuKprwvÁ|
ÁÁÁÁrwđÁ↔^↔↔↔→Ž{↔ă\|á→Ž\~æ^Žăæbăă{æbíÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁ↔^↔↔↔→Ž{↔ă\|á→Žb~→Žăæbăă{æbíÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁ↔^↔↔↔→Žăă→Ž\~æ^Žăæbăă{æbíÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁ\~æ^Ž\~\ă→Žb|**→]íÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁ↑↔^Žăæ´↔↑ă→bíÁŠ*\↔~^J|ĤLÊ
ÁÁÁÁrwđÁ↑↔&ăă\æŽăææŽă↑~|^íÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁ↑↔&ăă\↔~^Ž\~æ^Žă→~´ă\↔~^íÁŠ*\↔~^J|JHLÊ
ÁÁÁÁrwđÁăææŽăă´æ↔{æăíÁŠ*\↔~^J$|ă←æ]LÊ
ÁÁÁÁrwđÁ}ă↔\æ×→b\Žă^ăă→æăíÁŠ*\↔~^JĤ~→LÊ
ÁÁÁÁrwđÁ↑æ\æ~ăăŽ´~^ă↔&íÁŠ*\↔~^J$|ă←æ]LÊ
c
```

Eqpukfgt"cf fkipi"eq o rtgj gpukxg"rctc o gvgt"xcnkfcvkqp0

## JN/25\_"Uvcvg"Kpeqpukuvgpe{"Fwg"vq"Uqncpc Tqnmdecem

Qpg"hwpevkqp"kp"vjg"rtqvqeqn"ku"xwnpgtcdng"vq"uvcvg"kpeqpukuvgpekgu"kp"vjg"gxgpv  
qh"c"Uqncpc"tqnmdecem<

30"Ugvpki"Eqpłi"Rctc o gvgtu<

- Inqdcn"eqpłi wtcvkqp"rctc o gvgtu"eqwnf"dgeq o g"qvwfcvgf"fwtkpi"c  
Uqncpc"tqnmdecem
- Rtqvqeqn"eqwnf"qrgtcvg"ykvj"qnf"."kpxcnkf"ugvpkiu
- Rqvgpvkcñ"hqt"u{uvgo"o cnhwpevkqp"qt"xwnpgtcdknkvkgu

Tgeq o o gpfcvkqp<

30" Fgvgv"Qwvfcvgf"Eqpłi wtcvkqpu

- Wvknk|g"vjg"Qáb\Ĥæb\ăă\U→~\"u{uxct"vq"ejgem"eqpłi wtcvkqp"xcnkfkv{
- Cwvq o cvkecn{"rcwug"rtqvqeqn"kh"vjg"eqpłi wtcvkqp"ku"qvwfcvgf
- Tgswktg"cf o kp"kpvgtxgpvkqp"dghqtg"tguwo kpi"qrgtcvkqpu



40" C f f"ncuvawr f cvg faunqv"Hkgn f

- Kpenwfg"vtcemkpi"lgnf"kp"dqpfkpi"ewtxg"uvcvg
- Oqpkvqt"eqpl i wtcvkqp"wr fcvg"vk o guvc o ru

50" K o rng o gpv"Qwvf cvgf"Eqp l i wtcvkqp"E j gem

```
hpÁ↔bŽ´~^â↔&Ž~|\ää\æäÇ&→âá→iÁBInqdcnDÄËLÄPæb|→\Jâ~→LÄ|
ÄÄÄÄngvÄ→áb\Žäæb\ää\Žb→~\ÄKÄQáb\Ææb\ää\U→~\i i&æ\ÇDŁİ
ÄÄÄÄŠ<-Ç&→~âá→È→áb\Ž|*ää\æäŽb→~\ÄJKÄ→áb\Žäæb\ää\Žb→~\È→áb\Žäæb\ää\Žb→~\D
c
```

## JN/26\_"Kpuwh l ekgpv"Vqmgp"Ceeqwpv"xcnk f cvkqp kp"rqqn"kpkvkcnk | cvkqp

Ugxgtcn"vqmgp"ceeqwpvu"kp"vjg"Ø^↔\↔ä→~æ\$~→Û↔\åO~^â↔&"kpuvtwevkqp"ncem  
rtqrgt"qypgtujkr"cpf"okpv"tgncvkqpujkr"xcnk f cvkqp."tgn{kpi"qp  
Ů^´åä´←æäN´´~|^\'"kpuvgcf"qh"rtqrgt"vqmgp"ceeqwpv"xcnk f cvkqp0"Vjku"eqwnf  
cmnqy"vq"rcuu"kpeqttgev"vqmgp"ceeqwpvu()

Vjg"ewttgpv"ko rng o gpvcvkqp"wugu"Ů^´åä´←æäN´´~|^\'"hqt"o wnvkrng"vqmgp/tgncvgf  
ceeqwpvu<

```
ÄYäæ↔{æÇN´´~|^\'bDŸ
rwdÄuvtwevÄKpkvkcnk|gRqqnYkvjEqphkiJC↔^â~LÄ|
ÄÄÄÄÄYá´´~|^\'Ç↑|\DŸ
ÄÄÄÄ111"EJGEM<"Vqmgp"C"NR
ÄÄÄÄrwdÄäŽ{á|→\Ž→*iÄWpejgemgfCeeqwpvJC↔^â~LÊ

ÄÄÄÄÄYá´´~|^\'Ç↑|\DŸ
ÄÄÄÄ111"EJGEM<"Xcwnv"NR"ceeqwpvu"cpf"okpvu"hqt"vqmgp"C"
ÄÄÄÄrwdÄäŽ\~←æ^Ž{á|→\iÄWpejgemgfCeeqwpvJC↔^â~LÊ

ÄÄÄÄ111"000"qvjgt"wpejgemgf"vqmgp"ceeqwpvu
c
```

Vjku"ncemu"xcnk f cvkqp"hqt<

30"Vqmgp"ceeqwpv"qypgtujkr"xgtk l ecvkqp

40"Okpv"tgncvkqpujkr"xgtk l ecvkqp

50"V{rg"uchgv{"rtqxfkf"d{"Cpejqt)u"ceeqwpv"xcnk f cvkqp

C f f"rtqrgt"vqmgp"ceeqwpv"xcnk f cvkqp<



ÅYäæã↔{æÇN´´~|´^bDŸ  
 rwdÁúvtwewĀKpkvkcnk|gRqqnYkvjEqphkiJC↔^à~LĀ|  
 ĀĀĀĀĀYá´´~|´^Ç  
 ĀĀĀĀĀĀĀĀ↑|\Ê  
 ĀĀĀĀĀĀĀĀ´~^b\ãā↔^ĀKĀáŽ{á|→\Ž→\*Ê~}^æĀĀKKĀ{á|→\Ž\*ã~&ãā↑Ê↔æ}  
 ĀĀĀĀĀĀĀĀĀĀÇDĀMĀO~^Āā´\Óāā~āīī∅^{\ā→āŠ}^æāÊ  
 ĀĀĀĀĀĀĀĀ´~^b\ãā↔^ĀKĀáŽ{á|→\Ž→\*Ê↑↔^ĀKKĀáŽ{á|→\Ž→\*Ž↑↔^ĀÊ↔æ}  
 ĀĀĀĀĀĀĀĀĀĀÇDĀMĀO~^Āā´\Óāā~āīī∅^{\ā→āR↔^\  
 ĀĀĀĀDŸ  
 ĀĀĀĀrwdĀáŽ{á|→\Ž→\*īĀÑ~[JN´´~|´^JC↔^à~ÊĀŪ~↔æ^N´´~|´^LLÊ  
 ÅĀĀĀĀYá´´~|´^Ç  
 ĀĀĀĀĀĀĀĀ↑|\Ê  
 ĀĀĀĀĀĀĀĀ´~^b\ãā↔^ĀKĀáŽ\~↔æ^Ž{á|→\Ê~}^æĀĀKKĀ{á|→\Ž\*ã~&ãā↑Ê↔æ}  
 ĀĀĀĀĀĀĀĀĀĀĀÇDĀMĀO~^Āā´\Óāā~āīī∅^{\ā→āŠ}^æāÊ  
 ĀĀĀĀĀĀĀĀ´~^b\ãā↔^ĀKĀáŽ\~↔æ^Ž{á|→\Ê↑↔^ĀKKĀ\~↔æ^ŽáŽ↑↔^ĀÊ↔æ}  
 ĀĀĀĀĀĀĀĀĀĀÇDĀMĀO~^Āā´\Óāā~āīī∅^{\ā→āR↔^\  
 ĀĀĀĀDŸ  
 ĀĀĀĀrwdĀáŽ\~↔æ^Ž{á|→\īĀÑ~[JN´´~|´^JC↔^à~ÊĀŪ~↔æ^N´´~|´^LLÊ  
 ÅĀĀĀ11"Ukoknct"ejcpigu"hqt"qvjgt"vqmgp"ceeqwpvu  
 c

Cff"pgy"gttqt"xctkcpvu<

ÀYæãä~äž´~äæŸ  
 rwdǎǧpwoǎǞqpv̄tcevGttqtǎ|  
 ǎǎǎǎǎY↑b&ÇǎØ^ {ǎ↔ǎǎ\~←æ^ǎǎ´´~| ^\ǎ~} ^æǎǎDŸ  
 ǎǎǎǎǎØ^ {ǎ↔ǎš} ^æǎǎÊ  
 ǎǎǎǎǎ  
 ǎǎǎǎǎY↑b&ÇǎØ^ {ǎ↔ǎǎ\~←æ^ǎǎ´´~| ^\ǎ↑↔^ \ǎDŸ  
 ǎǎǎǎǎØ^ {ǎ↔ǎR↔^ \Ê  
 c

Cr rn{"uk o knct"xcnkfcvkqp"vq"cnn"vqmgp"ceeqwpvu<

- ⊙  $X_{cwnv}NR_{cee}q_{wpvu} * c_{axcwnv}a_{nr} . d_{axcwnv}a_{nr} +$
- ⊙  $V_{qmgp}x_{cwnv} _{cee}q_{wpvu} * c_{avqmgp}a_{xcwnv} . d_{avqmgp}a_{xcwnv} +$
- ⊙  $R_{c\{gt\}v_{qmgp}} _{cee}q_{wpvu} * r_{c\{gt\}av_{qmgp}}a_{c} . r_{c\{gt\}av_{qmgp}}a_{d} +$
- ⊙  $R_{tqvqeqn}h_{gg} _{cee}q_{wpvu} * r_{tqvqeqn}a_{vqmgp}a_{c}h_{gg} . r_{tqvqeqn}a_{vqmgp}a_{d}h_{gg} +$

**IN/27\_ "V j g" I n q d c n "C e e q w p v" o c { "d g  
k p k v k c n k | g f " g c t n { " d { " v j g " c v v c e m g t**

$$U_{\mathbf{g}} x_{\mathbf{g}} t_{\mathbf{k}} v_{\mathbf{k}} \{$$

## Korrev"Ogfkwo

Nkmgnkjqf<"Nqy



# Fguetkrvkqp

Vjg" Inqdcn"Ceeqwpv"wugu" c" 1 zgf"uvtkp i " \* Inqdcn<<UGGFaRTGHkZ"+"cu"kvu"uggfu.  
cpf"cp{qpg"ecp"ecnn"vjg"kpkvkcnk|cvkqp"hwpevkqp"cu"nqp i "cu" &->~ââ->Ê<->^<->\<->â->~æä  
ku"pqv"ugv0

```
ÀYæ{æ^\Ž´*↔Ÿ
ÀYâæâ↔{æÇN´´~|^\bDŸ
ÀY↔^b\â|´\↔~^Ç*áâá↑bÍÁÖ→~ââ→Uæ\\↔^&bØ^*|\DŸ
rwdÁuvtwevÁKpkvkcnk|gJC↔^â~LÁ|
ÁÁÁÁÀYá´´~|^\Ç↑|\DŸ
ÁÁÁÁÁ| \â~â↔\|ÍÁUkipgtJC↔^â~LÊ

ÁÁÁÁÀYá´´~|^\Ç
ÁÁÁÁÁÁÁ↔↔↔\Ê
ÁÁÁÁÁÁÁÁb*á´æÁKÁÍÁÉÁÖ→~ââ→i i ØSØÚŹUŞNOÓÊ
MLÁÁÁÁÁbææâbÁKÁYÖ→~ââ→i i UÓÓÉŽŞÞÓÓØVÈábŽâ| \æbÇDŸÊ
MLÁ
ÁÁÁÁÁÁ´~^b\ââ↔^ÁKÁ&->~ââ→Ê↔^<->\<->â->~æäÁKÁ\â|æÁMÁO~^ \âá´\Óââ~â i i N→âæáá|Ø^<->\<->â->~æäÊ
ÁÁÁÁÁÁÁÁâ|↑*Ê
ÁÁÁÁÁÁÁÁ*á|æâÁKÁÁ| \â~â↔\|Ê
ÁÁÁÁDŸ
ÁÁÁÁ&->~ââ→ÍÁÑ~[JN´´~|^\JC↔^â~ÊÁÖ→~ââ→LLE
c

ÁÁÁÁÁb|b\æ↑Ž´â~&ââ↑ÍÁRtqitcoJC↔^â~ÊÁU|b\æ↑LE
c

kornÁØ^<->\<->â->~æJCŽLÁ|
ÁÁÁÁrwdÁhpÁáá^â→æä
ÁÁÁÁÁÁÇ´\|ÍÁEqpvgzvJØ^<->\<->â->~æLEÁ*áâá↑bÍÁInqdcnUgvvkpiuKprwvDÁÊLÁæb|→\JÇDLÁ|
ÁÁÁÁÁÁÁÁngvÁ&->~ââ→ÁKÁBovvÁ´\|Èá´´~|^\bÈ&->~ââ→Î
ÁÁÁÁÁÁÁÁ&->~ââ→Ê|*âá\æŽá|\â~â↔\|ÇÖ→~ââ→N|\â~â↔\|Ø^*|\Á|
ÁÁÁÁÁÁÁÁÁÁ&->~ââ→Žá|\â~â↔\|ÍÁU~↑æÇ´\|Èá´´~|^\bÈá|\â~â↔\|È<æ|ÇDDÊ
ÁÁÁÁÁÁÁÁÁÁÁ↑&ââ<->~^Žá|\â~â↔\|ÍÁU~↑æÇ´\|Èá´´~|^\bÈá|\â~â↔\|È<æ|ÇDDE
ÁÁÁÁÁÁÁÁcDÎ
ÁÁÁÁÁÁÁÁ&->~ââ→Ê|*âá\æŽbæ\\↔^&bÇ*áâá↑bÈ´→~^æÇDDÎ

ÁÁÁÁÁÁÁÁâæ@|↔âæŽ&\ÁÇ&->~ââ→Ê↑<->\Žâæ´↔↑á→bÊÁÊÁO~^ \âá´\Óââ~â i i Ø^{á->~âNâ&|↑æ^DÎ

ÁÁÁÁÁÁÁÁ&->~ââ→Ê↔^<->\<->â->~æäÁKÁvtwgÎ
ÁÁÁÁÁÁÁÁæ↑<->\Ž´*↔^Ç&->~ââ→Ê↔^ \~Žæ{æ^\ÇDDÎ
ÁÁÁÁÁÁÁÁŠ<->ÇÇDD
ÁÁÁÁc
c
```

Vjgtghqgtg."cp"cwvcemgt"ecp"rtgg o rvkxgn{"ecnn"vjg"kpkvkcnk|cvkqp"hwpevkqp"vq"ugv"kvu  
qyp"cf ftguu"cu"vjg"cf o kpkuvctcvqt0"Cu" c" tguwnv."vjg" Inqdcn"Ceeqwpv"ecppqv"dg  
tgugv0

# Tgeq o o gpfcvkqpu

Ecnn"vjg"uki pgt)u"cf ftguu"cu"uggfu."qt"lwuv"twp"vjg" 1 zgf"cf ftguu"ecnn"kpkvkcnk|cvkqp  
hwpevkqp0