

A

Yemen Accountability Project



2024



Gnnkg Dwgtm

Cppg Gyctv

Ectqkpc Cvncu. Kcp Dtcffqem. Cppcnkg Dwuectkpq. Lguukec Ejcr ocp.
Jctrgt Hqz. Nqwfpg Mkgjn. Nkc o Rctuppu. Pkmkvc Lqujk
Octictgv Etqqmuvqp. Hcvkocj Gni j c|cyk. Cpftgy Icpw.
Nwecu Mcv|. Nwrtgp Ocmcdgt. Tkfc Uctyct. C ocpfc Uejycdgp. Cnckpc Ugiwkp. C|k| Ukfm{.
Nwrtgp Quvtqo. J qm{ Rgt| {pumk. Ectugp Vjqo ruqp0
Lguukec Ejcr ocp

Lco gu E0 Lqjpuqp. Cflwpev Rtqhguuqt qh Ncy cpf Fktgevqt qh vjg Jgpt{
Mkpi Yct Etko gu Tgugtej Qhhkeg
Lguukec Ejcr ocp
Kcp Dtcffqem

Vjg [g o gp Ceeqwpvcdknkv{ Rtlqgev *õ [CRö+ ku c uvwfgpv ngf/kpkvkvxg dcugf cv Ecug Ygugtp
Tgugtxg Wpkxgtukv{ Uejqqn qh Ncy cpf chhknkcvgf ykvj vjg Inqden Ceeqwpvcdknkv{ Pgv yqtm
*õ ICPö+0 Vjg qrpkqpu. eqpenwukqpu. cpf tgeqo o gpfvckqpu eqpvckpgf kp vjku tgrqtv fq pqv
pgeguactkn{ tghngev vjg xkgyu qh Ecug Ygugtp Tgugtxg Wpkxgtukv{ qt kvu Uejqqn qh Ncy0

ICP ku c eqmngvkvxg qh kpvgtpcvkqpcn etko kpcn rtqugewvqtu cpf rtcevkvkqpgtu y j q uwrgtxkug cpf
yqtm ykvj ncy uvwfgpvu qp urgekhe cvtqekv{ rtlqgevu hqt U{tkc. [g o gp. Xgpg|wgnc. Wmtckpg. cpf
vjg Rcekhke Tko tgikqp0 [CRøu uvwfgpv tgugtejgtu cpf cpcn{uvu icvjgt qrgp/uvwteq gxkfgpeg qh
rqvkvkn yct etko gu cpf etko gu cickpuv jwockpv{ eqo okwgf fwtkpi vjg [g o gp Ekxkn Yct vq
cuukuv ykvj hwwtg rtqugewkqpu wpgt vjg tngxcpv kpvgtpcvkqpcn ngicn uvcpfctfu0

80 Jqqqt Mknkpiu í 00058
90 Hg o cng I gpkvcn O wwkncvkqp í 059
:0 Hqtegf Octtkcig í 05:
;0 Tgultkevqpu qp Oqxo gpv í 05:
320 Tgultkevqpu qp Htggfq o qh Gzrtguukqp í í í í í í í í í í í í í í í í
í í í í í í í 0005;
í 62
330 Vctigvkpi qh NIDVSKC- Kpfkxkfwenu í 62
340 Vctigvkpi qh Okitepv Yqogp í 066
í 0068
í 0068
í 00068
30 Kpvgtpevkqpcn Eqwtvu í 00068
40 [g o gpk Fq o guvke Eqwtvu í 0006:
50 Hqtgkip Fq o guvke Eqwtvu í 006;
60 Cnvgtpcvkxg Ogejcpku ou í 072
í 073
í 073
í 073
í 074
í 0074
í 074
í 0075
í 077

Uw o octk|kpi vjg Y jkvg Rcrgtøu hpkfkpiu cpf tgeq o ogpfvkqpu0

Vjku y jkvg rcrgt gzcokpgu vjg xctkquw ogepu d{ y jkej vjg [g o gp Ekxkn Yct jcu
ko rnkecvgf igpfgt/dcugf xkqngpeg *øIDXö+ cpf vjg ngicn rtqxkukqpu wpgft dqvj kpvgtpevkqpcn
jwo cp tki jvu ncy *øKJTNö+ cpf kpvgtpevkqpcn jwo cpkvetkep ncy *øKJNö+ vjg rctvkgu vq vjg eqphnkev
jcxg rqvpgvkenn{ xkqncvgf cu c tguwnv qh rgrgtvtevkpi qt hcknkpi vq rtgxgpv uwej xkqngpeg0 IDX ku
vjg oquv gitgikquw hqt o qh igpfgt/dcugf fkuetk o kpevkqp cpf ku ko rgt o kuukdng wpgft kpvgtpevkqpcn
ncy0 Uvcvgu jcxg ep qdnkicvkqp vq rtgxgpv. rwpkuj. cpf tghtckp htq o gpicikpi kp igpfgt/dcugf
xkqngpeg0

Dcugf qp vjg gxkfgpeg rtgugpvvgf kp vjku y jkvg rcrgt. [CR eqpenwfgu vjcv vjg Ucwfk/ngf
Eqcnkvkqp. Jqvwjku. cpf [g o gpk Iqxgtp o gpv jcxg xkqncvgf vjgkt qdnkicvkqpu tgiectkpi
igpfgt/dcugf xkqngpeg0 Vjg rgrgtvtevtu qh vjgug xkqncvkqpu o wuv hceg lwuvkeg. o kvkicvg vjgkt
xkqncvkqpuø cfxgtug ghggev u cpf rtqxkfg tgnkgh vq vjgug chhgev d{ IDX

rergt ku vq rtqxfkg gxfkgpeg qh KJ TN cpf KJ N xkqncvkqpu eqpegtpkpi i gpfgt/dcugf xkqngpeg cpf qhhgt cxgpwgu hqt ceeqwpvcdknkv{0

Vjku y jkvg rergt cuuguugu vjg xctkqwu yc{u kp y jkej vjg [g o gp Ekxkn Yct jcu ko rnkecygf kuuwgu tgiectfkpi IDX. htqo gzcegtdevkpi vjg rtg/gzkuvkpi rtgxcngpeg qh IDX vq vjg wvknk|cvkqp qh IDX d{ vjg rctvkgu cu c ygerqp qh yct0 Vjku rergt kfgpvkhkgu dqvj vjg rgtrgvtevtu qh IDX cpf vjg gpvkvkgu vjcv jcxg hckngf vq rtgxpvp kv cpf kfgpvkhkgu ngien rtqxxkukqpu vjtqwi j y jkej kpvgtgugf rctvkgu ecp j qnf vjgug rgtrgvtevtu ceeqwpvcdng0

Rctv K uwo o ctk|gu vjg [g o gp Ekxkn Yct. vjg ekteu ouvpegu vjcv ngf vq kvu kpegrvkqp. cpf vjg o ckp rctvkgu kpxqnxgf kp vjg eqphnkev0 Rctv KK eqpukfgtu vjg fghkpvkqp qh IDX kp vjg eqpvgzv qh kpvgtpevkqpcn ncy cpf gznqtgu vjg kpvgtpevkqpcn ngien ncpfuecrg eqpegtpkpi vjcv vqrke0 Rctv KKK cpcn{ |gu {getn{ cpf vjg o cvke vtgpfu tgiectfkpi IDX kp [g o gp0 Rctv KX kfgpvkhkgu ngien rtqxxkukqpu kp dqvj KJ TN cpf KJ N vjcv etgevg nkedknkv{ hqt rgtrgvtevtu qh IDX. kpenwfkpi vjqug vjcv hckn vq rtgxpvp kv. cpf gzc o kpgu vjg gxfkgpeg qh IDX rtgugpvvf kp Rctv KKK wpfgt vjqug rtqxxkukqpu0 Rctv X cuuguugu ejcuzp igpy k3j gzkuvkpi ceeqwpvcdknkv{ og

Vq ukvvcvg vjg [gogp Ekxkn Yct ykvjpk vjg rtqrgt ngien htcogyqtm. vjg Itqwr qh Gokpkogpv kpvgtpevkqpcn cpf Tgikqpcn Gzrgtvu qp [gogp *õ Itqwr qh Gzrgtvuõ+ jcxg fgukipevgf vjg yct cu c pqp/kpvgtpevkqpcn ctogf eqphnkev *õPKCEö+0³⁸ PKCEu kpxqnxg eqphnkevu dgvyggp c Uvcvg cpf c pqp/Uvcvg ctogf itqwr³⁹ Cnvjqwi j o wnvkrng Uvcvgu jcxg rctvkekrcvgf kp vjg eqphnkev. vjqug Uvcvgu gcej uwrqtv Jcfkøu iqxgtpogpv vq eqodcv c pqp/Uvcvg cevqt. vjg Jqvwjk tgdgnu. cpf vjwu. vjg eqphnkev ku rtqrgtn{ fgukipevgf c PKCE⁰³: Kp PKCEu. ngien qdnkicvkqpu ctkug wpfgt dqvj ewuvqoct{ kpvgtpevkqpcn ncy cpf vtgev{ ncy⁰³: Cnn rctvkgu vq vjg eqphnkev. kpenwfki Jcfkøu [gogpk iqxgtpogpv. vjg Ucwfkongf Eqcnkvkqp. cpf pqp/uvvcvg cevqtu. kpenwfki vjg Jqvwjk tgdgnu.⁴² ctg dqwpf d{ ewuvqoct{ kpvgtpevkqpcn ncy⁰⁴³ Vjku kpenwfgu vjg ewuvqoct{ KJN rtkpekrngu qh fkuvkpevkqp. pgeguukv{. cpf rtqrgtvkqpcnkv{⁰⁴⁴ Gxgp kp ctgu yjtg Jcfkøu iqxgtpogpv jcu nquv eqpvtqn. kv uvknn tgvckpu rqukvkxg qdnkicvkqpu wpfgt ewuvqoct{ kpvgtpevkqpcn ncy⁰⁴⁵ Cffkvkqpcn{. [gogp ku c rctv{ vq cpf. vjgtghqtg. dqwpf d{ vjg Iggpxc Eqpxgpvkqpu qh 3;6; cpf Cffkvkqpcn Rtqvqeqn KK⁰⁴⁶ Vjg Ucwfk/ngf Eqcnkvkqp ku cnuq dqwpf d{ vjg Iggpxc Eqpxgpvkqpu dgecwug vjg{ tghngev ewuvqoct{ kpvgtpevkqpcn ncy⁰⁴⁷ Uk o knctn{. Vjg Itqwr qh Gzrgtvu jcu cnuq eqpukfgtgf KUKU cpf CSCR vq dg dqwpf d{ KJN dgecwug gcej itqwr jcu gpicigf kp rctcngn PKCEu ykvj [gogpøu iqxgtpogpv hqtegu⁰⁴⁸ Hqt vjgug tgcuppu. gcej qh vjgug rctvkgu oc{ dg jgnf ceeqwpvcndg hqt vjgkt xkqncvkqpu qh KJN⁰ Vjg{ oc{ cnuq dg nkcdng hqt KJTN xkqncvkqpu. kh lwtkufkvkqpcn{ crnkcdng⁰ Hqt oqtg kphqt ocvkqp cdqvw vjg [gogp Eqphnkev cpf kvu fgukipevkqp cu cp PKCE. rncug ugg vjg [CRøu rtgkqwu rwdnkcevkqpu⁰⁴⁹

³⁸ W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 57. W0P0 Fqe0 C1JTE167IETR09 *4242+0

³⁹ W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 37. W0P0 Fqe0 C1JTE15;165. *423:+0

^{3:} W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 55. W0P0 Fqe0 C1JTE167IETR09 *4242+0

^{3:} KpvøN Eqo oøt TGF ETQUU. jvvr<llkt0ketel0qti lgplkpvgtpevkqpcn/
jwocpkvctkcp/ncyluqwtegu/kjn/vtgcvkgu/ewuvqoct{/ncyl. *ncuv xkukvgf Lwp0 37. 4243+0

⁴² W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 54. W0P0 Fqe0 C1JTE167IETR09 *4242+0

⁴³ W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 37. W0P0 Fqe0 C1JTE15;165 *423:+0

⁴⁴ cv Ê 370
cv Ê 350

⁴⁶ W0P0 Jki j Eqo oøt hqt Jwocp Tki jvu.
. Ê 57. W0P0 Fqe0 C1JTE167IETR09 *4242+0

⁴⁷ cv Ê 530

⁴⁸ cv Ê 560

⁴⁹ [GOGP CEEQWPVCDKNV[RTQLGEV. CkFKPI (CDGVVKPI < JQNFPI UVCVU. EQTRQTCVKQPU. CPF KPFXXKFWCNU CEEQWPVCDNG HQT YCT ETROGU KP [GOGP ;/32 *4242+= [GOGP CEEQWPVCDKNV[RTQLGEV. UVCTXCVKQP < DWNFPI VJG ECUG HQT RTQUGEWKPI UVCTXCVKQP ETROGU KP [GOGP *4243+= [GOGP CEEQWPVCDKNV[RTQLGEV. EWNWTCN RTQRGTV[< DWNFPI VJG ECUG HQT RTQUGEWKPI VJG FGUVTWEVKQP QH EWNWTCN RTQRGTV[KP [GOGP *4245+0

Vjg vgt o igpfgt/dcugf xkqngpeg *õIDXö+ dtqcf n{ gpeq o rcuugu jct ohwn cevu fktgevgf cickpuv cp kpfkxkfwcn qt itqwr qh kpfkxkfwcnu dcugf qp vjgkt igpfgt⁰⁴: Vjg vgt o cffkxkqpcnn{ eqxgtu jct ohwn cevu eq o okvvgf cickpuv kpfkxkfwcnu vcti gvgf dgecwug qh vjgkt ugzwcn qtkgpcvkqp⁰⁴: IDX kpenwfgu òr j {ukecn. ugzwcn. cpf ru{ejqnqikecn xkqngpeg qeewttkpi kp vjg hc o kn{ qt ykvj kp vjg igpgtcn eq o owpkv{. cpf rgrgtvcvgf qt eqpfqpgf d{ vjg Uvcvg⁰⁵² Vjg hqnnqykpi cevu eqpuvkvwvg IDX< ugzwcn xkqngpeg. uwej cu tcr g cpf ugzwcn cuucwnv= fq o guvke qt kpvk o cvg rctvpgt xkqngpeg= hg o kekfg qt jppqt mknkpi u= hg o cng igpkvcn o wvkncvkqp= cpf hqtegf o cttkci g. co qpi qvjgt cevu⁰⁵³ Kp cffkxkqp vq vjgug r j {ukecn hqt o u qh xkqngpeg. IDX kpenwfgu kpuvcpegu qh ru{ejqnqikecn cpf qvjgt hqt o u qh pqp/r j {ukecn xkqngpeg. uwej cu ugzwcn jctcuu o gpv⁰⁵⁴

Cu uvcvgf d{ vjg Kpvgtpcvkqpcn Etk o kpcn Eqwv *õKEEö+øu Qhhkeg qh vjg Rtqgewvqt. rgrgtvcvqtu qh IDX etk o gu qhvgp kpvpgf vq rwpkuj kpfkxkfwcnu vjg{ rgtgkxg vq jcxg vtcpi tguugf uqekcn{. ewnwtcn{. qt qvjgt ykug gpvtgpejgf hqt o u qh igpfgt gzrtguukqp⁰⁵⁵ Ceeqtfkpin{. IDX rtqnkhgtcvgu cu c tguwnv qh u {uv g o ke kpgswcnkv{ dgvyggp igpfgtu⁰⁵⁶ U {uv g o ke kpgswcnkv{ tguwnvu kp c pw o dgt qh pgicvkxg eqpugswgpegu. cnn qh y jkej ctg gzcegtdcvgf d{ eqphnkev⁰⁵⁷ Hqt gzc o rng. dgecwug yq o gp cpf iktnu jcxg nguu tgrtgugpcvkqp kp fgekukqp/ o cmkpi.⁰⁵⁸ o knkvct{ qrgtcvkqpu ctg pqv rtqrqtvkqpcvgn{ kphnwgpegf d{ yq o gp cpf iktnuø igpfgt rgturgevkvxgu⁰⁵⁹ Vjku ku qpg qh vjg

⁵⁶ jwru<ll y y òwpyq o gpòqti lgp| yuvr {r

. WP YQOGP.

⁵⁷ Jngp Fwtjco. gv cnò.

. KPVoN

Eqooò TGF ETQUU DNQI *Lwpg 52. 4244+.

jwru<lldnqi uòketeòqti lnc y/cpf/rqnke{14244|28152|i gpfgtf/k o rcevu/qh/ct o gf/eqphnkev/cpf/ k o rnkecvkqpu/hqt/vjg/cr rnkecvkqp/qh/kjnò

⁵⁸

⁵⁹

tgcuppu yj{ yqogp cpf iktnu ctg fkurtqrqtvkqpcvgn{ jctogf d{ uwej qrgtcvkqpu⁵: Vjcv jct o ku
gzcegtdcvgf d{ yqogp cpf iktnuø tguvtkevgf ceeguu vq jgcnvjectg cpf qvjgt guugpvkcn ugtxkegu. uwej
cu gfwecvkqp0

Y jkng vtcpiigpfgt cpf pqpdkpct{ rgtuqpu ctg cnuq fkurtqrqtvkqpcvgn{ vctigvgf cu c tguwnv
qh vjgkt igpfgt. kpvgtpcvkqpcn nc yókpenwfkpi kpvgtpcvkqpcn dqfkgu. vtgcvkgu. cpf Uvcyguóigpgtcnn{
eqpukfgtu IDX htqo c dkpct{ rgturgevkg⁵: Vjg tguwnv ku c ykfg icr kp vjg IDX jwo cp tki jvu
htcogyqtm⁶² Cf fkvkqpcnn{. y jkng ekuigpfgt yqogp.

Y jgp vjg [g o gp Ekxkn Yct dtqmg qvw kp 4237. [g o gp ykvpguugf cwcemu qp lqwtpenkuvu. yqogp. okitepvu. cpf rtkuqpgtu⁰⁸⁴ Oqvqte{enkuvu cuucuukpcvgf c ngcfkpi lqwtpenkuv cpf Jqwj k cevxxkuv kp c ftkxg/d{ ujqqvkpi⁰⁸⁵ Cn/Scgfc ctdkvtctkn{ fgvcxpgf uvwfgpvu cv c eq/gfwecvkqpcn wpxgtukv{ hqt gkvjgt dgkpi hg o cng uvwfgpvu qt cuuqekcvkpi ykvj hg o cng uvwfgpvu⁰⁸⁶ Cktuvtkmgu mkngf okitepvu d{ rwtrqughwnn{ vctigvkpi Kpvgtpcnn{ Fkurncegf Rgtuqpu *öKFRö+ ec o ru⁰⁸⁷ Eqcnkvkqp oknkvkcu rncegf rtkuqpgtu qp c dqcv cpf vjgp dngy kv wr. mknnkpi vjqug qp dqctf⁰⁸⁸

Lqwtpenkuvu cpf yqogp uwhtgtf uk o knct cwcemu kp 42380 Jqwjku hktgf qp lqwtpenkuvu tgrqtkvki qp vjg htqpvnkpgu qh vjg yct. mknnkpi qpg cpf kplwtkpi hqwt⁰⁸⁹ Cpqvjgt lqwtpenkuv ycu mkngf d{ c Jqwj k upkrgt yjng eqxgtkpi encujgu kp Dc{ jcp^{08:} C fkvkqpcnn{

pgyuócpf cdfwevgf cv ngcuv ugxgp rgqrng⁰⁹⁹ Cf fkvkqpcnn{. c Jqvwjk utkmg nghv qpg lqwtpeukuv
fgcf⁰⁹: kp Pqxo dgt qh 423: . dqvj Eqcnkvkqp cpf Jqvwjk cwcemu tguwnvgf kp vjg fgcvjv qh
yqogp⁰⁹:

423; ykvpguugf xkqngpv cpf dtc|gp cwcemu⁰ Qp 33 ugrctevg qeekukqpu. yqogp ygtg
iwppgf fqyp d{ Jqvwjk hqtegu. Jcfk hqtegu. cpf cpvk/Jqvwjk Pcvkqpcn Tgukucpe / ;

tgrqtvu kpenwfg cuucwnvu cickpuv cp :/{gct/qnf dq{.

cpqvjgt uwwf{ tngxgngf vjcv fq o guvke xkqngpeg ycu vqngtcvgf vq uwej c fgitgg vjcv xkevku
uvtwi ingf vq hkpfc ugpguq qh uchgv{ kp vjg j q o g³³;

Crctv htqo vjg kpetgcugf tcvgu qh ugzwcn cpf rj {ukecn xkqngpeg vjcv jcxg hqmqygf vjg
qpugv qh vjg yct kp [g o g p i g p g t e m n { . d q v j q h v j g o c l q t r c t v k g u v q v j g e q p h n k e v j c x g g p i c i g f k p
uwej xkqngpeg cu c fktgev eq o r q p g p v q h v j c v e q p h n k e v 0

Vjg J q w v j k u j c x g t q w v k p g n { g p i c i g f k p u g z w c n c p f r j { u k e c n x k q n g p e g c i c k p u v y q o g p 0
Owej qh vjku xkqngpeg uvgo htqo vjg itqwrud kfgqni { . y j k e j f g o q p k | g u y q o g p . ³⁴² g p x k u k q p u
vjgo cu j q o g o c m g t u c p f o q v j g t u . c p f g z e n w f g u v j g o h t q o r w d n k e n k h g 0 ³⁴³ C o k f v j g
fkuugokpcvkqp qh vjku nk okvki kfgqni { . x k q n g p e g c i c k p u v y q o g p j c u r t q n k h g t c v g f 0 H t q o
F g e g o d g t 4 2 3 9 v q Q e v q d g t 4 2 4 4 . J q w v j k h q t e g u c e e q w p v g f h q t o q t g v j c p 3 . : 2 2 t g r q t v u q h
m k f p c r r k p i . v q t v w t g . c p f t e r g q h y q o g p c p f i k t n u 0 ³⁴⁴

Kp c f f k v k q p v q J q w v j k c e v k a p u . [g o g p k c t o g f h q t e g u j c x g t q w v k p g n { g p i c i g f k p v j g
m k f p c r r k p i c p f t e r g q h f k u r n c e g f r g q r n g c p f o k p a t k v k g u c u c o g c p u q h u w d l w i c v k p i v j q u g
e q o o w p v k u 0 ³⁴⁵

O g o d g t u q h v j g U c w f k / n g f E q c n k v k q p c p f c u u q e k c v g f h q t e g u j c x g c n u q e q o o k v g f c e v u q h
u g z w c n x k q n g p e g . r c t v k e w n c t n { c i c k p u v e j k n f t g p 0 ³⁴⁶ H q t g z c o r n g . k p O c t e j . 4 2 3 ; . c p k p x g u v k i c v k q p
d { C o p g u v { K p v g t p c v k a p c n f q e w o g p v g f v y q c v v c e m u q p e j k n f t g p o q p g c t e r g c p f v j g q v j g t c p
c v v g o r v g f c u u c w n v o c n n g i g f n { e q o o k v g f d { E q c n k v k q p / d c e m g f o k n k v c o g p k p V c k | | 0 ³⁴⁷ C e e q t f k p i v q
v j c v k p x g u v k i c v k q p c p f q v j g t u . o g c p k p i h w n c e e q w p v c d k n k v { h t q o v j g [g o g p k l w f k e c n u { u v g o q t q v j g t
k p u v k v w k a p u t g o c k p u n c t i g n { g n w u k x g 0 ³⁴⁸

40 Ru{ejqni kecn Xkqngpeg

Ru{ejqni kecn cdwug qeewtu y j g p o g p v e n q t g o q v k a p c n j c t o k u k p h n k e v g f w r q p c p
k p f k x k f w c n 0 ³⁴⁹ U w e j j c t o e q p u v k v w v g u I D X y j g p v j t g c v u q h x k q n g p e g . j w o k n k c v k q p . j c t c u u o g p v .
u v e n m k p i . k p v k o k f c v k q p . q t q v j g t u w e j u k o k n c t c e v u c t g f k t g e v g f c i c k p u v c p k p f k x k f w c n q p v j g d c u k u q h
v j g k t i g p f g t 0 ³⁴ C e e q t f k p i v q c 4 2 3 ; W p k v g f P c v k a p u T g r q t v . e n o q u v c s w e t v g t q h t g r q t v g f I D X

³³: K F 0

³⁴² O q c o o c t C n / G t { c p k .
. Y k n u q p E g p v g t * O c t 0 4 6 . 4 2 4 5 + .

j w r u < l l y y 0 y k n u q p e g p v g t 0 q t i l c t v k e n g l r t g x g p v k p i / p g z v / m c d w n / e q p h t a p v k p i / j q w v j k u / x k q n g p v / u w r r t g u u k a p / y q o g p / { g o g p 0

³⁴³

³⁴⁴

³⁴⁵ C I G P F G T G F E T K U K U . 3 3 5 . c v 8 2 0

³⁴⁶ P k t e j q u . p q v g 3 3 6 -
C o p g u v { K p v o n R t g u u T g n g c u g * O c t 0 . : . 4 2 3 ; + .
j w r u < l l y y 0 c o p g u v { 0 q t i l g p l n c v g u v l r t g u u / t g n g c u g l 4 2 3 ; 1 2 5 1 { g o g p / v c k | / c w v j q t k v k g u / o w u v / v c e m n g / e j k n f / t e r g / c p f / c d w u g / w
p f g t / o k n k v k c / t w n g l = . O y c v c p c P g y u

T g n g c u g * Q e v 0 4 6 . 4 2 4 4 + .
j w r u < l l t g n k g h y g d l k p v l t g r q t v l { g o g p l { g o g p / u w f c p g u g / h q t e g u / e q c n k v k q p / e q o o k v / u g z w c n / x k q n g p e g / j c l l c j 0
347 . O y c v c p c P g y u T g n g c u g * Q e v 0 4 6 .

4 2 4 4 + . j w r u < l l t g n k g h y g d l k p v l t g r q t v l { g o g p l { g o g p / u w f c p g u g / h q t e g u / e q c n k v k q p / e q o o k v / u g z w c n / x k q n g p e g / j c l l c j 0
348 = C I G P F G T G F E T K U K U . 3 3 5 . c v 8 8 / 8 9 0

³⁴⁹ C E C R U . p q v g 3 3 2 . c v 8 0

³⁴: K F 0

pw o dgtu³⁶: C... { [g o gpk ncy rtd...
cdqtkqp ku pge... vq rtgugtxg vjg nkkg qh...
tcr g³⁷³ Dcugf... cdqyg nkuvgf dettkgtu vq o...
gzvtg o gn { nk o kv... f uwej tguvkevkqpu ecp kpe

gevt hkp fu vj cv cp
kqp kp ecugu qh
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u³⁷⁴

I gpfgt/Dcugf Xkqngpe

Gzrqwvtg vq... o gcpkpi hwmn { vj y...
Oqtgqxgt. vjg ewnvwt... ou y jkej ikxg...
hqt y q o g p c p f i k t n u . k p... kewnct. vq ceeg...
gfwecvkqp hqt iktnu c p f y... ku i t g c v n {
hwpevkqpn kuuw... uwej cu f k u r n c e g o g p v³⁷⁷

fwevkqp0
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[g o g p... o g p u v t w i i n g v q c e e g...
eqphnkev. uwej... g j k i j t c v g q h e j k n f o...
t k i j v v q g f w e c...³⁷⁷ c p f g z k u v g f g x g p r...
t g r q t v g f c p k p... { v q j g n r j g t e j k n f t g p...
u e j q q n v q o c t t { c v c { q w p i c i g³⁷⁸ V j g n c...
q p n k v g t c e { t c v g u . k u r t q d n g o c v k e v j t q w i j...
t g r q t v g f c p k p e d k n k v { v q t g c f g z r k t c v k q p f o

cxg rtd...
g z o t n g . q p g j q o e p...
k u u w g u³⁷⁹

C r r t q z k o c v g n { q p g k p h q w t g f w e c k...
u q o g u w f g p v u n k x k p i k p o q t g e q p v g u v g f t g i

f k p v j g e q p h n k e v c p f...
h d g k p i e c w i j v k p v j g

etquuhktg qp vjgkt yc{ vq qt htq o

Dgyyggp 4236 cpf 4242. vjg W0P0 hqwpf cv ngcuw 52 xgtkhkgf ecugu qh kpfkxkfwenu
õctdktctkn{ cttguvgf cpf fgvcckpgf kp xkqncvkqp qh [g o gpk cpflqt kpvgtpcvkqpcn nc y0ö³⁸; Rgtuqpu
jcxg dggp hqwpf vq jcxg dggp fgvcckpgf ykvjqww ejctigu hqt rtqnqpi gf rgtkqfu³⁹²

x t

[g o g p k / i q x g t p o g p v / e q p v t q n n g f e q c u v c n t g i k q p u . y j g t g d g v y g g p 82 c p f : 2 r g t e g p v q h y q o g p j c x g g z r g t k g p e g h g o c n g i g p k v c n o w v k n c v k q p 0^{3:4} O q u v q h v j g u g y q o g p y g t g v c t i g v g f c u k p h c p v u 0^{3:5}

:0 H q t e g f O c t t k c i g

V j g [g o g p e q p h n k e v j c u j g k i j v g p g f v j g h t g s w g p e { q h e j k n f o c t t k c i g h q t h g o c n g e j k n f t g p 0 C n v j q w i j e j k n f o c t t k c i g h q t h g o c n g e j k n f t g p y c u e q o o q p k p [g o g p d g h q t g v j g e q p h n k e v . k v j c u u k p e g d g e q o g o q t g r t g x c n g p v 0^{3:6} H q t o q t g k p h q t o c v k q p q p v j g r t c e v k e g q h e j k n f o c t t k c i g c p f k v u r c t v k e w n c t k o r c e v q p i k t n u . t g x k g y v j g [C R 0 u r t g x k q w u y j k v g r c r g t q p v j g g h h g e v q h v j g e q p h n k e v q p e j k n f t g p 0^{3:7}

;0 T g u v t k e v k q p u q p O q x g o g p v

C n n r c t v k g u v q v j g e q p h n k e v k p [g o g p j c x g g p i c i g f k p v j g u { u v g o c v k e t g u v t k e v k q p q h y q o g p 0 u h t g g f q o q h o q x g o g p v 0^{3:8} V j g u g t g u v t k e v k q p u j c x g k o r c t g f y q o g p 0 u c d k n k v { v q c e e g u u y q t m . g f w e c v k q p . c p f j g c n v j e c t g 0^{3:9} D g i k p p k p i k p 4236 . c w v j q t k v k g u k p [g o g p 0 u e c r k v c n q h U c p c c j c x g t g s w k t g f y q o g p v q v t c x g n y k v j c c o c n g i w c t f k c p u w e j c u c j w u d c p f . q t y k v j y t k v g p r g t o k u u k q p h t q o v j k u r g t u q p 0^{3::}

J q w v j k 0 u N e p f V t e p u r q t v T g i w n c v q t { C w v j q t k v { g z r e p f g f v j g t g u v t k e v k q p u q p y q o g p 0 u o q x g o g p v k p C w i w u v 4244 . 0 t g s w k t k p i v j c v y q o g p p q n q p i g t d g r g t o k v g f v q v t c x g n c p { y j g t g y k v j k p J q w v j k / e q p v t q n n g f c t g c u . v q c t g c u e q p v t q n n g f d { v j g [g o g p k i q x g t p o g p v . q t q w v u k f g v j g e q w p v t { y k v j q w v c 0 0^{3::} V j k u k u g u r g e k c n n { c p k u u w g h q t y q o g p y j q f q p q v j c x g o c p { o g p k p v j g k t h c o k n k g u 0⁴²² V j k u r c t v k e w n c t n { c h h g e v u y q o g p y j q y q t m = o c p { j c x g n q u v v j g k t l q d u c u c e q p u g s w g p e g q h p q v d g k p i c d n g v q v t c x g n y k v j q w v c 0⁴²³ O q t g q x g t . y q o g p c t g v j t g c v g p g f y k v j k p u w n v u k h v j g { c t g u g g p v t c x g n k p i q w v u k f g q h U c p c c y k v j q w v c o c n g i w c t f k c p 0⁴²⁴ V j g { c t g c n u g v j t g c v g p g f y k v j k o r t k u q p o g p v . y j k e j e q o g u y k v j u g x g t g e q p u g s w g p e g u h q t y q o g p 0⁴²⁵

Handwritten text on the left margin, including the letter 'S'.

Handwritten text in the upper middle section, containing various characters and symbols.

Handwritten text in the middle section, including a large number '426' and '427'.

Handwritten text in the lower middle section, including a large number '434'.

320 Tgultkevqpu qp Htgffqo qh Gzrtguukqp

edbeɔp

[gogpk yqogp cpf iktnu jcxg vjgkt htggfqo qh gzrtguukqp

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[g o g p k y q o g p y q t m k p i k p l q w t p e n k u o c p f c e v k x k u o h c e g u w d u v c p v k e n e j c n n g p i g u v j e v v j g k t o c n g e q w p v g t r e t v u f q p q v 0 I g p f g t / d c u g f f k u e t k o k p c v k q p k u r g t x c u k x g c p f k u g z r t g u u g f v j t q w i j x c t k q w u h q t o u q h j e t c u u o g p v . v j t g e v u v q r g t u q p e n u c h g v { . c p f g x g p c t d k v t e t { f g v g p v k q p 0 4 3 8 K p 4 2 4 3 . T g r q t v g t u Y k v j q w v D a t f g t u t g e q t f g f c 4 2 ' u w t i g k p c t d k v t e t { e t t g u v u . v q v e n n k p i 6 : : l q w t p e n k u v u . k p e n w f k p i 8 2 y q o g p . o c t m k p i c j k u v q t k e j k i j h q t y q o g p f g v c k p g g u 0 4 3 9 Y q o g p y q t m k p i k p l q w t p e n k u o c p f c e v k x k u o c n u q t g e g k x g j e t c u u o g p v q p n k p g x k e u e k e n o g f k c . y j k e j n g c f u v q d n e m o c k n k p i c p f v j g k u u w c p e g q h f g c v j v j t g e v u . h w t v j g t g o r j c u k | k p i t k u m u v q r g t u q p e n u c h g v { 0 4 3 : K o r q t v c p v n { . y j k n g p w o g t k e c n n { v j g t g c t g n g u u y q o g p l q w t p e n k u v u k p [g o g p . f w g v q o c p { q h v j g t g u v t k e v k q p u q w n k p g f n e v g t k p v j k u u g e v k q p . v j g t e v g c v y j k e j v j g { c t g e t t g u v g f . r t q u g e w v g f . c p f v e t i g v g f k u u w d u v c p v k e n 0 4 3 ;

E g p u q t u j k r h w t v j g t t g u v t k e v u y q o g p o u e c r e e k v { v q t g r q t v k p f g r g p f g p v n { c p f c e e g u u g u u g p v k e n k p h q t o c v k q p 0 4 4 2 [g o g p k l q w t p e n k u v u c t g q h v g p v e t i g v g f d { v j g r e t v k g u v q v j g e q p h n k e v k p c p c v v g o r v v q r t g x g p v l q w t p e n k u v u h t q o t g r q t v k p i q p g x g p v u v j e v e q w n f u m g y r w d n k e q r k p k p c i c k p u v v j g o 0 V j k u q x g t e t e j k p i v j t g e v v q l q w t p e n k u v u n g c f u v q v j g o r t e v e k e p i u g n h / e g p u q t u j k r k p q t f g t v q c x q k f j e t c u u o g p v . c u u c w n v . c t d k v t e t { f g v g p v k q p . h q t e g f f k u c r r g e t c p e g u . r t q u g e w v k q p k p u j c o v t k e n u t g u w n v k p i k p k o r t k u q p o g p v c p f r q u u k d n { v j g f g c v j r g p e n v { . c p f o q p g v e t { h k p g u 0 4 4 3 G w t q / O g f J w o c p T k i j v u O q p k v q t t g r q t v u v j e v c m n [g o g p k l q w t p e n k u v u j e x g d g g p u w d l g e v g f v q c v n g c u v q p g h q t o q h j w o c p t k i j v u x k q n e v k q p 0 P a v e d n { . [g o g p k u t c p m g f v j k t f k p v j g y q t n f h q t o q u v l q w t p e n k u v u m k n n g f k p v j g n e u v f g e c f g y k v j c t e v g q h o q t g v j c p h x x g m k n n g f r g t { g e t 0 4 4 4

Y q o g p h c e g w p k s w g q d u v c e n g u k h v j g { e c p q d v e k p g o r n q { o g p v c u c l q w t p e n k u v q t c e v k x k u v 0 O q u v y q o g p l q w t p e n k u v u c f f k v k p e n n { h c e g u e k e g v e n r t g u u w t g u . v j t g e v u . n k o k v g f q e e w r e v k q p e n q r r q t v w p k v k g u . c p f h c o k n { t g l g e v k q p q h v j g k l q w t p e n k u o 0 4 4 5 Y q o g p c n u q h c e g e j c n n g p i g u y j g p k v e q o g u v q r t e v e k e c n c u r g e v u q h l q w t p e n k u o . p c o g n { f k h h k e w n v { k p e q p f w e v k p i k p v g t x k g y u c p f q d v e k p k p i u e v g o g p v u 0 Y q o g p l q w t p e n k u v u c t g p q v c n y c { u t g e q i p k | g f c u l q w t p e n k u v u g x g p k h v j g { c t g g p i c i k p i k p l q w t p e n k u v k e c e v k x k v k g u . h w t v j g t u w d l g e v k p i v j g o v q f k u e t k o k p c v k q p . r c { e w v u . g z r w n u k q p h t q o g x g p v u . c p f n k o k v g f c e e g u u v q l q w t p e n k u v r t q v g e v k q p u w p f g t K J N 0 4 4 6

Y q o g p l q w t p e n k u v u c p f c e v k x k u v u c t g c n u q t g s w k t g f v q j e x g c e e q o r c p { v j g o y j g p v j g { n g c x g v j g j q o g . e q p u v t c k p k p i v j g k t c w v q p q o { c p f v j g k t c d k n k v { v q e q p f w e v v j g k t y q t m g h h g e v k x g n { 0 4 4 7 E q p u g s w g p v n { . v j g x c u v o c l q t k v { q h o g f k c q w v n g v u k p [g o g p j e x g t g h t c k p g f h t q o

⁴³⁸ 4244 EQWPVTI TGRQTVU QP JWOCPTKI JVU RTCEVKEGUK [GOGP. W0U0 FGR0V UVCVG *4244+.

jwru<lly y y0uvvg0iqxltrqtvu14244/eqwvpt{/tgrqtvu/qp/jwocp/tkijvu/rtcevekul{gogp10

⁴³⁹

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JWOCPTVU0 OQPKVQT *Oct0 9. 4245+.

jwru<l1gwtqogf o qpkvq0qt i lgp1ctvkeng1782; l0Pqv/{qwt/rtqhuukq0ö/Xkqncvkqpu/cpf/jctcuuogpv/hceki/hgocng/lqwtpe nkuvu/kp/[gogp./Vwpkuc./qRv0]jgtgkpvcht. ö ö_0

⁴³: Owdetcm Cn/ [qwukhk.

. HCKT RNCPGV *Lcp0 49. 4245+.

jwru<lly y y0hcktrncpgv0qti luvqt{lvjg/e{dgt ' 42etkog/grkfgoke/vctigvkpi/{gogpk/yogp10

⁴³:

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⁴⁴⁷ HTQO PRIJV VQ FCTMGT PRIJV. GSWCN TKIJVU VTWUV *423+.

jwru<lly y y0gswcntki jvuvtwu0qti lgtvfqewogpvdcpml [gogpaGPaqnpkg ' 42xgtukq0r fh0

M R K D M

gpicikpi qt eqmcdqtcvkpi ykvj hg o cng lqwtpcnkuvu⁰⁴⁴⁸ Vjku tguvtkevqap qp vjg htggfqo qh oqxgogpv cpf kvu tgnvcqpujkr vq vjg xkqncvkqpu qh yqogpø tki jv vq htggfqo qh gzrtguukap yknn dg gzrnqtgf oqtg kp cpqvjgt ugevqap. dwv kv ku ko rqtvcpv vq pqvg vjcv vjg tgswktgogpv vq ftguu c egtvckp yc{ cpf qpn{ vtexgn ykvj c o cng gueqtv nk o kvu vjg cdknk{ qh yqogp lqwtpcnkuvu cpf cevxkuvu vq qdvckp go rna{ ogpv cpf eqvpkpwg yqtmkpi0

[gogpk lqwtpcnkuv Ygfef cn/Dcfeyk jcu uvcvfv vjg tguvtkevqapu qp yqogp lqwtpcnkuvu pqv qpn{ pgicvkxgn{ chhgev yqogp. kv chhgevu lqwtpcnkuo cu c yjqng0 Jg jki jnkijvu vjg gzc o rng qh eqpugtvcvkxg [gogpk yqogp qpn{ dgkpi eqohatvedng urgcmkpi cpf ikxkpi vguv o qp{ vq yqogp lqwtpcnkuvu⁰⁴⁴⁹ Hwtvjgt. lqwtpcnkuo cu c yjqng dgpghkvu htqo vjg fvxgtukhkecvkqap qh uvqtkgu. rgturgevkvxgu. kpvgtxkygtu. cpf ytkvgtu ykvj kpvjg vjg hkgnf0 Lqwtpcnkuo ku kpjgtgpvn{ oqtg ceewtcvg cpf tgrtgugpvckxg yjgp yqogp ctg kpenwfgf vjtqwi jqvw vjg tgrqtkpi rtqeguu cpf ykvj kpvjg ogfkc kpfwuvt{ igpgtcnn{0

Yqogp lqwtpcnkuvu cpf qvjgt yqogp rtqhgaukqpcnu ctg rctvkewncn{ vctigvfv d{ rctvkgu vq vjg [gogp eqphnkev xkc rqnkekgu tguvtkevpi yqogpø oqxgogpv0 Vjg WP Jwocpkvctkcp Eqqtfkpcvqt jcu rtgxkqwn{ dtkghgf vjg WP Ugewtkv{ Eqwpekn qp kuuwgu eqpegtpkpi WP yqogp go rna{ggv cpf jgy vjgug rqnkekgu jcxg pgicvkxgn{ korcevfv vjgkt cdknk{ vq yqtm. uvcvkpi vjcv vjg ocjctco rqnkekgu jcxg cfxtugn{ chhgevfv cpf eqo rnvgn{ jcnvfv ocp{ qh vjgkt hg o cng uvchhøu yqtm⁰⁴⁴: Jwocp Tki jvu Ycevej enuq tgrqtvu vjcv ejgemrqp v qhhkekenu vctigv yqogp yqtmkpi ykvj jwocpkvctkcp cigpekgu cpf papiqxgtpogpvcn qticpk|cvkqpu. wuwcn{ rtgxgpvkpi vjgug yqogp hqo vtexgnkpi kpvq Jqvwjk/eqpvtqngf vgttkvqt{⁰⁴⁴: C [gogpk yqogpø tki jv vq htggfqo qh gzrtguukap yknn jwocp Tkl jvu Ycevej vjcv yjgp vt{kpi vq rcuu vjtqwi j c iqxgtpogpv/eqpvtqngf ejgemrqp v

o gu tq

o c p f c v g f v j g { u g m n q p n { v j g u g u r g e k h k e k v g o u . t g s w k t k p i v j g o v q u w

322 neujgu qt wr vq qpg {gct kp rtkuqp⁰⁴⁶⁴ Kh c jq o qugzwen kpfkxfwen ku octtkgf. vjg oczkwo
ugpvpeg ku fgcvj d{ uvqkpi⁰⁴⁶⁵ [g o gp ku qpg qh qpn{ ugxgp eqwpvtkgu kp vjg yqtnf vq ko rqug vjg
fgcvj rgpcnv{ hqt jq o qugzwenkv⁰⁴⁶⁶

Cevqtu kp vjg [g o gp Ekxkn Yct jcxg tqwkpgn{ vct

Tgrqtvu kpfkecvg vjcv okitcpv uowi ingtu. vjg [gogpk iqxgtpogpv. Jqvwjk hqtegu. cpf Ucwfk Ugewtkv{ Hqtegu jcxg cmm rtrgvtcvvgf igpfgt/dcugf xkqngpeg cickpuv okitcpvu0 Fwg vq [gogpøu fkhkewnv vgttkp. ocp{ okitcpvu tgn{ qp uowi ingtu qt vtchhkemgtu vq gueqtv vjgo vjtwij oqwpvckpu uvej cu vjg Ucteycv Oqwpvckpu0 Vjgug uowi ingtu. uqog eqmcdqtcvki ykvj vjg [gogp Ko okitcvkqp. Rcuurqtv. cpf Pcvkqpenkv{ Cwvjqtkv{ *KRPC+. tqwvkpgn{ gzvqtv. tcrq. cpf vjtgevgp okitcpvu0 Okitcpvu kp cp KRPC ec o r jcxg dggp uwdlgevqf vq ugzwcn gznqkvcvkqp. hqtegf ncdqt. cpf qvjgt hqt ou qh cdwug0⁴⁸⁶ Okitcpvu yjq tgukuv gznqkvcvkqp ctg fgvcppgf0⁴⁸⁷ Kp kpvgtxkyu fppg d{ Jwocp Tki jvu Ycvej. vjtgg qh vjg vgp yqogp cpf iktnu kpvgtxkygfygtg tcrqf d{ uowi ingtu qt qvjgt okitcpvu0⁴⁸⁸ Hqt kpuvcepg. c 36/{gct/qnf Gvjqrkcp iktn pcogf Jcofk{c vqnf Jwocp Tki jvu Ycvej vjcv uowi ingtu vjtgevgppgf vq tcrq jgt yjgp uvg ycu wpcdng vq rc{ vjgo oqtg oqpg{ vjcp vjg{øf kpkvckm{ citggf0⁴⁸⁹ Qvjgt kpuvcegu kpenwfg c 42/{gct/qnf yqocp dgeqokpi rtgipcqv htqo tcrq d{ c uowi ingtu0⁴⁸:

Jqvwjk hqtegu wug igpfgt/dcugf xkqngpeg vq gzvqtv oqpg{ htqo okitcpvu cpf vjgt hc o knkgu dcem jqog kp Gvjqrkcp0⁴⁸: Jqvwjk hqtegu cnuq uwdlgev yqogp cvvg o rvkpi vq etqu kpva Ucwfk Ctedkc vq ugzwcn uncxgt{ yjgtg uqnfkgu tqwvkpgn{ tcrq cpf ugzwcn{ jctcuu vjgug yqogp0⁴⁹² Qpeg okitcpvu tgej vjg Ucwfk dqtfgt. Ucwfk ugewtkv{ hqtegu ctg tguqqukdng hqt IDX cickpuv yqogp cpf iktnu cu {qwpi cu 35 {gctu qnf0 Tgrqtvu kpenwfg yqogp dgkpi tcrqf d{ Ucwfk ugewtkv{ hqtegu cpf rwujgf dcem cetquu vjg dqtfgt kpva [gogp ykvjqwv vjgt enqvjgu0⁴⁹³ Jwocp Tki jvu Ycvej cnuq tgrqtvu vjcv okitcpv ogp jcxg dggp gzgewvgf hqt tghwukpi vq tcrq hgmnqy okitcpvu cv vjg kpuvtwevkqp qh Ucwfk ugewtkv{ hqtegu0⁴⁹⁴

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⁴⁸⁶ Ncoc Hcmkj (Pcfkc Jctf ocp. . Jwocp Tvuu
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⁴⁹³ Ngvgt Oqtktu Vkfden/Dkp|. WP Urgekcn Ter rqtvgwt qp gzvtclwfkecn. uw o oct{ qt ctdkvtct{ gzgewvkqpu. gv cn0 vq Ucn ocp dkp Cdfwnc|k| Cn Ucwfk. Mkp qh Ucwfk Ctedkc *Qev0 5. 4244+.

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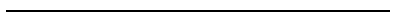
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o q t g u r g e k c n k | g f n c y . e q p h n k e v . v j g u r g e k c n k | g f n c y v c m g u r t g e g f g p e g ⁰⁴⁹⁶ k p v j g e q p v g z v q h c t o g f
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y j g v g t c f g r e k x e v k p q h i n k g q w t k p j e t o g f e q p h n k e v k u ö g p a v e t { ö

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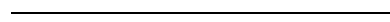
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70 Ctdkvtct{ Ko rtkuqo gpv

Ctvkeng ; qh vjg 3;6: Wpkxgtucn Fgenctcvkqp qh Jwo cp Tki jvu urgekhhgu vjcv ðPq qpg ujcnm dg uwdlgevfg vq ctdkvtct{ cttguv. fvgvkvkqp qt gzkng0⁵³: Vjg Kpvgtpevkqpcn Eqxgpcpv qp Ekxkn cpf Rqnkvkccn Tki jvu *KEERT+ gzrqwpgf qp vjku kp kvu Ctvkeng ; ykvj uvcvg o gpvu vjcv ðPq qpg ujcnm dg uwdlgevfg vq ctdkvtct{ cttguv qt fvgvkvkqp0 Pq qpg ujcnm dg fgrtkxgf qh jku nkdgtv{ gzegrn qp uwej itqwpfu cpf kp ceeqtfcepg ykvj uwej rtqegftwg cu ctg guvcdnkujgf d{ ncy.ö cnqpi ykvj rtqkukqpu o cpfcvkpi kphqto kpi cp cttguygg qh vjg ejctigu cickpuv vjgo cpf gpvkvnkpi qpg yjq ku cttguygf vq c vtken ykvj kp c tgcuaqpcdnk vk o gl⁵³: Kp cffkvkqp. vjg Tqog Uvcvwwg. vq yjkej [gogp ku c ukipevqt{ dwv pqv c tevk{ kpi rctv{. tgeqipk|gu vjcv ðko rtkuqo gpv qt qvjgt ugxtg fgrtkxcvkqp qh nkdgtv{ kp xkqncvkqp qh hwpfc o gpvcn twngu qh kpvgtpevkqpcn ncy ö ecp eqpuvkvwwg c etkog cickpuv jwo cpkv{ kh ðeqo okvvgf cu rctv qh c ykfgurtgcf qt u{vugocvke cvvccm fktgevfg cickpuv cp{ ekxknkcp rqrwncvkqp. ykvj mpqyngfig qh vjg cvvccm0⁵⁴²

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o r t k u q p o



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⁵⁸⁶ . cv ctv0 48= EGFCY. pvg 4;3. cv ctv0 4= . Jwocp Tv00 Ycvej *Fge0 43. 4232+.

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⁵⁸⁷ Tqog Uvcvwyg. pvg 66. ctv0 9*3+*j+0

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j q e d c u k u . v j g r c v j y c { v q l w t k u f k e v k q p y q w n f p g g f v q u v g o h t q o c v t g e v { ö u e q o r t q o k u u q t {
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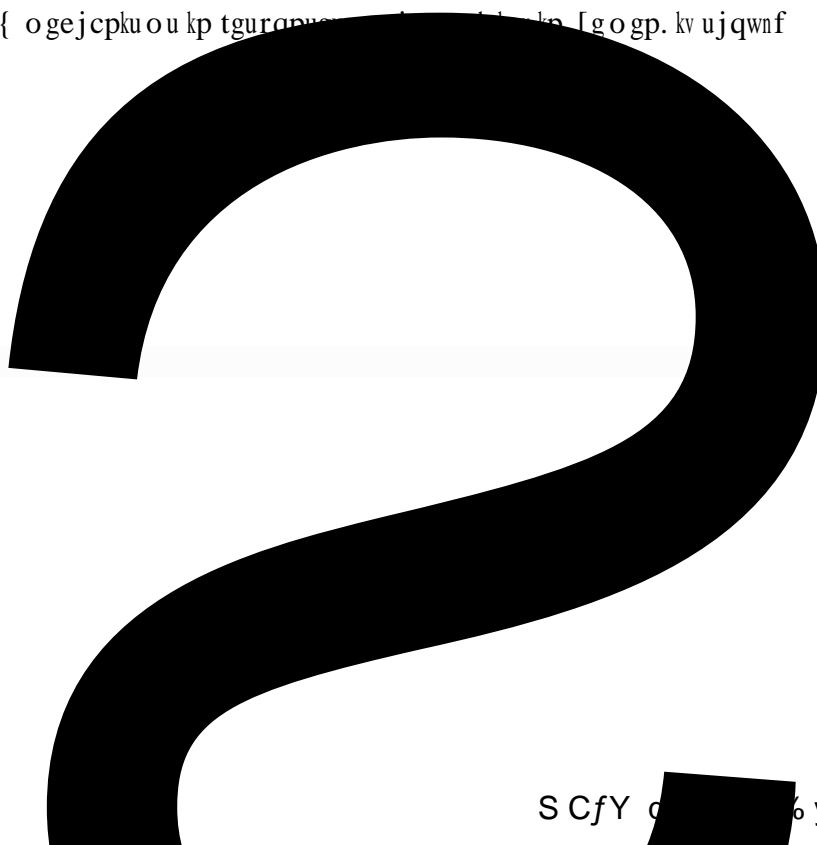
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. nkmg vjg wug qh vtcw o c jgcnkpi. eq o o wpkv{ dwknfkpi. tgpvgi tcvkqp. cpf fgekukqp/o cmkpi ektengu. ujqwnf dg eqpukfgtgf yjgp fgxgnqrkpi c rncp hqt ceeqwpvcdknkv{ kp [g o gp TL ku c xkevko /egpvtgfg. jct o /tgfwevkqp hqewugf rtcevekg vjcv nqmmu vq tgrckt tgnvcvkpujkru cpf jqnf vjqug yjq jcxg ecwugf jct o ceeqwpvcdng Vjku eqwnf dg c vqqn wvknk|gf ykvjcp c VTE qt eq o o wpkv{ qwtgcej rtqitc o

Vjg jki j rtgxcngpeg qh IDX ukpeg cpf dghqtg vjg qpugv qh vjg [g o gp Ekxkn Yct fg o cpfu vjcv vjg rctvkgu kpxqnxgf hceg ceeqwpvcdknkv{. dqvj hqt vjgkt rgrgtvcvkqp qh uwej xkqngpeg cpf hqt vjgkt hcknwtg vq rtgxgpv. kpxgukicvg. cpf rwpkuj uwej xkqngpeg IDX xct{kp in{ xkqncvgu KJN cpf KJTN. cpf yjkng vjg vjg KEE ncemu lwtkufkevqp qxgt vjg ukvvcvkqp kp [g o gp.⁶⁷³ cpf rwtuwkpi ceeqwpvcdknkv{ vjtqwi j [g o gpk fq o guvke eqwtvu tkumu dkcugf cpf wplwuv rtqeggfkpiu.⁶⁷⁴ uvcmgjqnfgtu eqwnf cpf ujqwnf rwtuwg ceeqwpvcdknkv{ hqt KJN qt KJTN xkqncvkqpu hqnnqykpi vjg etgevqp qh cp cf jqe vtdwpcn. uk o knct vq vjg UEUNou o qfgn.⁶⁷⁵ qt d{ hknkpi ecugu kp vjg fq o guvke eqwtvu qh vjktf/rctv{ Uvcvgu ykvj cr rnkcedng wpxgtucn lwtkufkevqp uvcvwwgu⁶⁷⁶ Kp vjg o gcpvk o g. vjg WP ujqwnf etgcvg cp kpfgrgpgpv kpxgukicvkg Ogejcpku o vq icvjgt gxkfgpeg qh etk o gu eq o okwgf kp [g o gp vq cuukuv ykvj hwwtg rtqugewkqpu. P I Qu ujqwnf eqpvkpwg vq o cmg vjgkt qrgp/uqwtg hkpfkpiu cxckncdng vq uvcmgjqnfgtu kpvgtgugf kp rwtuwkpi ceeqwpvcdknkv{. cpf jw o cpkvtckp ckf qt icpk|cvkqpu ujqwnf eqpvkpwg vjgkt ghhtvu vq rtqkfg ckf vq vjg xkevko qh igpfgt/dcugf xkqngpeg kp [g o gp

Ukr 18 18 E!

⁶⁷⁴ O YCVPC HQT JWCP TKI JVU. EQWTU HQT CDWUG C ECUG UVWF [QH [GOGPØU URGECNK\GF ETKORPCN EQWTU\K 4237/4242 335/36 *4243+. jwru<ll o ycvpc<lti l y r/eqpvglwrdqful4243|34|Eqwtvu/hqt/Cdwug/Uvff{/Gp0r fh0

⁶⁷⁵ Okejcg Uejth. 7 C o UQE) [KPv)N N0 KpukI JVU 36 *4222+. jwru<ll y y0cukn0qti lkpuki jvulxqno gl7lkuuwgl36lurgekn/eqwtv/ukgttc/ngqpg= . W0P0 UGE0 EQWPEKN. jwru<ll y y0wp0qti lugewtkv{eqwpeknleqpvglwrdqful4243|34|Eqwtvu/hqt/Cdwug/Uvff{/Gp0r fh0

⁶⁷⁶ . VTRCN KPvØN 42 *Pqx0 7. 4244+. jwru<llvtknkpvgtcvkqpcn0qti lncvguv/rquvlpkxgtucn/lwtkufkevqp/cppwcn/tgkgy /4242/cvtqekvkgu/ o wuv/dg/rtqugewgf/uq pfn{/cpf/tkiqtqwun{0