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TUTTU Maa

Aivelo, Tuomas

Helsingin yliopisto, Bio- ja ympäristötieteellinen tiedekunta  
2019-12-14

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ympäristötieteellinen tiedekunta .

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Vdud Olqgkr qd rd K hhdqd f wudp -wlp 1,



Nr xoxwdrdw  
Dud NdbMqhq/ Dqwrql Nhuyiqhq/  
Wxxd Ulwqhq/ Wkr p dv Dlyhø rd Mq Ulnehj

Nr xoxvnhq r vdwqxqhwr shwdrdw

Wk Wk Okdqnh

Wk Wk xnvhdqhq rd Wk Wk lqqdqhq  
Xnr qdr sslp lqhq

VXWVK OVXWVlp xnvhøqhg rd wlp lqqdøqhg xør qdr sslp lqhg

I W hnr øjldq | ðr slwøq ðk wul mnd  
vjosnhq vðh Kholaj lq | ðr slwøq Elr 0rd  
| p sCE woslvhøq vhwCE vlgghnxqqdwd  
r shxnvhwel yelwødydød yeløghndøqld  
K hndqdr q vøxwøvødød ndylvlhvnhq vxwvrd  
rd r shwørd/ rd vxwvll ndylvhq hnr øjldø/ rd  
ndylvhq vøghkvlp lvhq hnr i|v r øjldø1  
K hndqdr q vxr wøq xwvndylvlhvnhq yhunnr 0  
r sslp dlvndød nr xøwøvøð1 KCE r q  
wlp lqxw slwvCE vlgghnxqqdø  
dqhgø shwørdnr xøxnvhq sduwø1

I P/ Elr øjldq rd p dðqvlhvnhq r shwørd/  
mnd r q wlp lqxw r shxnvhq r khød  
p xndød p r qhgølvhwø shgø r jlvhwø  
dlvøq vøvndylvøvCE Vødød yllp hndvlq  
sur rlvklql r q nxxøqxw hmp hunlv  
VXWVK Ødøqnhq nrruglqlw vhwCE  
p xxq p xøwø elr øjldø ndøglr krhp dø  
rd ndylelr øjldø p dlvndvl krhp dø  
Glj lø Inndø sur rlvklql r vøwøp lqhg  
Kholaj lq \ ðr slwørd1

Nr xøwørdø#

I W Elr øjldq glgchvlndø | ðr slwøq ðk wul vjosnhq vðh  
Kholaj lq | ðr slwøq Nødyøxvlhvnhq r vøwørd1 Durdø r q  
slwvCE nr nhp xv xør qdr shwørd lvhwø r shxv0rd  
vxwvlp xwvøe p | øCE KCE r q wlp lqxwørdø shwørdø/  
r shwørdønr xøwørdørd vøghqql vnr xøwørdød yxrghwø  
4<< øEvlhø1 Nhvnhvlq vxwvlp xwvhp d r q xør qd  
r sslp lqhg/ elr glyhvvlhvnhvndyøxv rd øhøqøqqlvøv1 Durd  
r q shxwøq xwvøp hq øvlhø p hwCE hvnlø øE/ mnd  
ndøqxwørd ndnlndylhp øE øsvld xø v r sslp døq1

I P / W k w r u n r x o x v h w d y d v / o e n h q v h d h K h o l a j l q | o r s l w r q  
N d y d x v h v h l g h q r v d w r o e 1 D q w r q l r q n r x o x v n v h o d d q  
e l r o j l d q r d p d d q v h v h q r s h w a d v h n C e r n d q r s h w a d 1 K C e r q  
w l p l q x w j o r s l w r o e n h k l w C e C e C e r q l d a d w a d r d  
w x v l p x n v h o d r s s l p l v h q v a s r r d v h n C e s h w a d q n r x o x w a d d q  
r d v C e g h q q | v n r x o x w a d d 1 Y C e o e n l u r d x v l p x n v h w d d q D q w r q l  
w x v l l x o n r o s s l p l v p s C e w a v C e s d k w y d d r s s l o g h q  
y x r u y d n x w a d r d r s s l p l w d w n h y l d r s h x v C e r n w d r C e

I P / W x d r q w x w a d d q o x q q r q p d d q v h v h o e n C e  
p d d q v h v h q r d e l r o j l d q d q h q r s h w a d 1 V x d r q h u l w C e  
n l l q r w x q x w l h g h n d y d x n v h w d / m q n d s d l w d k C e r q  
v / o e n h q q h o w K h o l a j l q | o r s l w r q J h r s l w h o l h g h o x r n d q  
w l p l q q d q n o x w a d p p 1 n h k l w C e C e C e r k r a d p d a d  
k d u n l w x v o C e r x o x k p l a h 1 W C e k h v h o C e V x d v / o e n h q v h d h  
J h r v h v h l g h q r d p d d q v h v h q r v d w r o e w k w r u n r x o x v h w d y d d  
E l r J h r V l h q f h P r g h o l a j O d e O x v l p x v j k p C e C e r n w d k C e  
w x v l l o h i n q o y l q q h v | v h q y d n x w a d y l d v n l r o e C e l u n w o  
d s l l q l v h w d | p s C e w a v C e

I W W k r p d v w l p l l w x v l r d w k w u l q d K h o l a j l q | o r s l w r q e l r O r d  
| p s C e w a v h o v h w C e l h g h x q q d w d / m w d k C e y h v C e  
K h o l a j l q n o x s x q n l u r w a s u r r h n v d v h n C e r x o x w a d w d h y l d  
e l r o j l d q r s h w a d 1 W k r p d v r q r v d w x q x w d o a n x q q d v h q  
r s h x w x x q q l w p d v / o e n / n l u n l w a q x w e l r o j l d q r s s l n l u n r d  
o n l r r q / v C e g h q q | v n r x o x w a d x w r s h w a d p x x p x d w d x o n r q d  
r s s l p l v h w d r d p r e l l d a d w l g h q n C e o v C e h n C e l u n l w a d  
n r o p q h r d P d b v x g x q v d h y d v x x v h q r d W h g h O x r q w  
O h k v h q v h n C e n d n h q v a d d q r q o l q h q C e o j l d W h g h O h k g h q  
q h w l y x l o e 1

O x N / M q r s l v n h d h n d y l e l r o j l d d / r d y d p l w x x e l r o j l d q r d  
p d d q v h v h q r s h w a d h 1 M q r q w l p l q x w r s h w a d d  
K h o l a j l q | o r s l w r o e / o n l r w d v h n C e r q w n r x o l w d r d r q  
p | o e w l p l q x w r s s d a d O x r q q r q v h v h o v h o C e p x v r o e 1  
W C e C e d v C e M M q r q r o e w p x n d q d o b m p d w d  
r s h x v p r q l w h v d | o r s l w r o e 1 Y a s d o C h o d d q M q r q  
d q v k d u d w a d r d o x q q r q y d o n x y d d 1 M q r q w l p l q x w a d v C e M  
V X W X O k d q n n h w d n C e v o e C e n C e v C e | w C e C e n l u r d q  
| o h v h w r v d w x r w l n v 1

W X W X O V X w l p x n v h o d q h q r d w l p l q q d o d q h q x o n r q d r s s l p l q h q

# Rvdøwx qhhwr shwørdw

Dqqld Ur wø/ Kholqj lq Qr up dddvhr/ Kholqnl  
 Dqqp dth Vlydø/ Yllnlq qr up ddnr xø1Kholqnl  
 Fcp lød Mkdqvr q/ Z lqhvønd Vnr øq/ N| unvøw  
 Hlrd Nxrøqxxx/ Yllnlq qr up ddnr xø1Kholqnl  
 Høqd Sxr øhnd Ddlnnd/ SØEr| vñq nr xø/ Sr uyr r  
 Hur Vr ul/ Nhxuxq | kvlvnr xøq | ØEr xø/ Nhxuxx  
 Mddq UØE/ Qlqqdnhq nr xø/ Sr uyr r  
 Mqql Shnr qha/ Vøxqddkghq nr xø1Hvsr r  
 Mwf d Eur øv/ N| unvøw j | p qdMxp / N| unvøw  
 Mkdqdd Q| p dnr/ ØE qhvødh elr ø j l r f k j hr j ud l/ Mnr ewøg  
 Mlqqd Nløwøp / Nødvyr uhq nr xø rd Nøxqldvñq ønlr/ Nøxqldqha  
 Mxnr Vøp l/ Nhudydnhq nr xø/ Nhudyd  
 Mxød Mqwxqha/ ykddvndydvxrvhø r shwørd/ SØEØEr w Nøddyd/ Kholqnl  
 Nøw Lp p høY Øvnr ØE SlvøØE p ØE q shuxvnr xø1Kholqnl  
 Øøud Søyløghq/ Røulq \ kvlvnr xø/ Hvsr r  
 P dld Nhw/ Nøxwlvhø p xvllnnlønir/ Nøxwlvhø  
 P dnr Vfkudghu/ Ghxwfk h Vfkxøh Kholqnl/ Kholqnl  
 P lød Dlwr økw/ Ullklndør q nr xø/ Vxvøø  
 Qlqax Nr usl/ Vøxqddkghq nr xø1Hvsr r  
 Ulvø Nhnlvø/ Shuqøø | kvlvnr xø/ Shuqøø  
 Vøqdd Mxsslø/ SØEr| vñq nr xø/ Sr uyr r  
 Vøqdd Ylvøghq/ Nr vnhøq | ØEr xø/ P ØEwøE  
 Vød Vsr røv l/ SlvøØE p ØE q shuxvnr xø1Kholqnl  
 Mund Vøi/ Yllnlq qr up ddnr xø1Kholqnl

Vivox hwhor

VX WX OVX vmlp xnvhæqhq rd w lp lqqæqhq xør qdr sslp lqhq

# WVWVX Ò Vxwlp xnvhøqhq rd wlp lqqdøqhq xør qdr sslp lqhq

WVWVX Økdqnh r q vxxqqlvno x valnøp dðq r shwøthøh nr xøxwød/ mwd r shwøthøh lwh sØEhyØE vxxqqlvno p dðq vhnØE wlvxwøp dðq vxwlp xnvhøvld vhnØE p r qldøvld xør Ø r sslp lvp sØEwøe vr slyld r shwøthøh nr qdvvxnvlød1 Nr xøxwød valnr lwhvøq nhvnoØE r q ØvØE r øxwøxwød dwl r shwøthøh vxwøp lqhq p dlvødøthøq rdøp lqhq p xloøh r shwøthøh/ mø lq nr xøxwød k| øy vødødøq ødøwlv røhwød hvhøqØE ndlnøh r shwøthøh1 Nr xøxwød lghr lp dwd r ø kdønnhøq mkvødøq Khøqød f wøp lq ØvØE døqhøq shwøthøh Mvøx P xvøqhq rd nr r øglødøwlvød kdønnhød dø lwl Khøqød ØdøvØEyl/ mqnød røthøq nr r øglødøwlvødnl ydøxvl Vød Øqøkr ø 1

Kdønnhøq nr xøxwød r q røthøwlv Yllnøq nøp sxnvød +Elr Ø rd | p sØEwøthøhøq hvghnxøv/ Khøqøq lq | ør slwø, vhnØE Øp p lq ølr ø jlvød dlvø død rd VyØE lqqhq hØEvlvøhøvØEvp død1 Nr xøxv r q røthøwlv nøhvlhøvøqØE mqnød mkgr wøp | ø vØE ØE mndvø r q nøhvlhøq1\ ølvhwø vøwø yøwø r øp p lød nr vlp dlvød nlvødØE r shwøthøq vxxqqlvno p dvlvøØE døxshØE r shwøthøq vxwøp død nlvødØE Rshwøthøq vxxqqlvno p lwd vlvøØE øy dønxydøwø yøwø shwøthøq lwhqØE wøp lø/ høh wlvø p dølvød1

## Døxvødøw

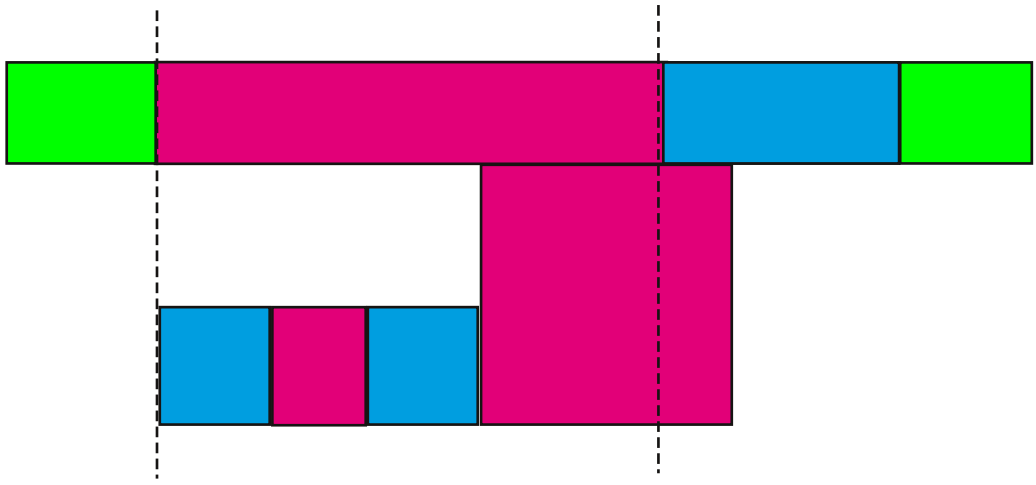
Rkhøq mndvø r q valnr lwhvø ndlnøh r shwøthøh død yøkdvndyøxnvhød ønlr r q dvl1 Sdøq vxvød mndvøwø r q shwøthøh vxwø/ p xwø vø v sll ylvøhp dlvødøvø p løh vlvødød ør nndøvøthøh p r qldøvøq vxwlp xnvhøvøq rd wlp lqqdøvøq xør Ø r sslp lvp sØEwøE k| øy lqøqhq vlvøØE hvhøq vxhvl1 Mndvøwød valnødøq r shwøthøh xør Ø r sslp lvp sØEwøe vxxqqlvno rd xxvl/ yøp llwø vlvøØE mlwø r vøwø sdøq vxwø høp p ØE p r qldøvøxv/ r vøwø vxwlp xnvhøvø rd wlvøwø wlp lqqdøvøxv1 Vkr vlvøwø vlvøØE nr qdvvxnvlwø sdøq wxydøwø ssløghøq ødøvøvøq r vøp lwhø vøgr wø dvlvøqhq wlp lxxv vhnØE p r qldøvøq r shwøthøh

WVWVX ØVxwlp xnvhøqhq rd wlp lqqdøqhq xør qdr sslp lqhq



Nr xoxv vlv | kvlvhq rvdq/ mkrq nxxal d lrvwscdp lvhq dv r p dq vlv  
 vrvxv rsslwrvnvhd vlvj q 534< dndqd vncv ssvhrp lqddu1\ kvlvhq rvdq dv  
 nr xoxvnhwd rlvnlq qhvdvhp dwd +vdy/ Lp d/ P dd rd Yhm, vlvhp dq dkhvvhq  
 dlwlyv rlvnlq Rshvrdw ydwl ydws vlvhp rlvnd ndvl/ mlklq kh  
 rvdwlydvl Nr xoxvnhq vhhqgh r q hlvvlv nxydwd 41

Mlvhvq vlvhp dq hqvp p lvhq rlvnlq vlvhp dq p xndvld vlvnlp xnvhdvxxwd  
 rd vlv lqddvxxwd nvlvnlq vlvnlq r d vxxqvlvnlq xnr r sslp lvj p s  
 Vlvhvq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 Vlvnlq vlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 dvlvlydwsdvlvnlq vlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
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Q k| hwnxydvnvhlvhp ds lvhq vlvnlq rlvnlq vlvnlq vlvnlq vlvnlq vlvnlq  
 nvlvnlq rlvnlq 5< rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 | rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 rlvnlq

Nvlvnlq p h ndnld nr xoxvnhq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq  
 vlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq

Kholqj lvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq

Vdud Olggkr qv rd K hvhdq f vlvnlq

Vlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq rlvnlq

# VXVWX 01 r unqlaj vedvudg r f k dnwlyhudqgh xwxqghuylvqlaj

Sur rinvw VXVWX OE hq OE r uelqqlaj gOE OE l uq d r OE s oq h u d r f k j h a r p i o e  
ir unqlaj vedvudg r f k OE q h v o s h u n u l g d q g h x q g h u y l v q l a j v k h k h v u v r p x v i o e v x w p k x v l  
X v e l q q l a j h q v p z o e l a j k d u y d w d w g h o h g h w d y OE l u q d s u r g x f h u d g h  
x q g h u y l v q l a j v p d n u d h w v l o d o l g h o j d h r f k r f n v z v l o d a g u d OE l h t y l d g h q a d  
s x e d n d r q / y d u y l g i r u e l q q l a j h q n r o h v i y w n r p p h u d w j | q a d h w w r u w d q v o b OE l h l  
l r u e l q q l a j h q k d u s o q h u d y s u r r i n v o g d h q K h o q d f w o e r f k d y OE q h v OE l h q M w x v  
P x v d q h q 1 Y l g s u r r i n v w d u h q 534; y d u K h o q d O a d v o e l n r r u g l q d v u r f k V o l d O a g k r o  
w j o s h u d e h v w x q g h u z u 534 < 1

Gh r o n d g h o l u q d y s u r r i n v w i r u e l q q l a j k d u k z o w l E l r 0 r f k p l o a s h v i n q n d s o j d  
i d h x o h v i n q / K h o l a j i r w x q l y h u l v i n w x w l p p h q l Y l n l K h o l a j i r u / v o p w s z O a p s l v  
e l r o j l v n d w a l r q r f k W y O e p l q q h } r r o j l v n d w a l r q l l r u e l q q l a j h q k d u g h o y l v k z o w s z  
w y z v s u z h / r f k g O e p h g O e r f n v z h q a d s x e d n d r q w y z v s u z h l j 1 G h d a p O e j q d v h v g h o l u q d y  
s x e d n d r q h q i l q q v s z i l q v n d r f k v y h q v n d / p h g d q g h d y OE l u q d s u r g x f h u d g h x s s j l i v n u q d  
i l q q v s z g h w s u z h OE l h q i u z q e o e n d q k d u d a y O e w y l g s o q h u l a j h q d y x s s j l i v n u q 1 G h e l o g h u  
v r p i l q q v l v o p e d q g p h g x s s j l i v n u q O e v o j q d d y OE l h q l i u z d / l i d o l a j h w d a q d w a q O e q v l  
v o p e d q g p h g e l o g h u q d l

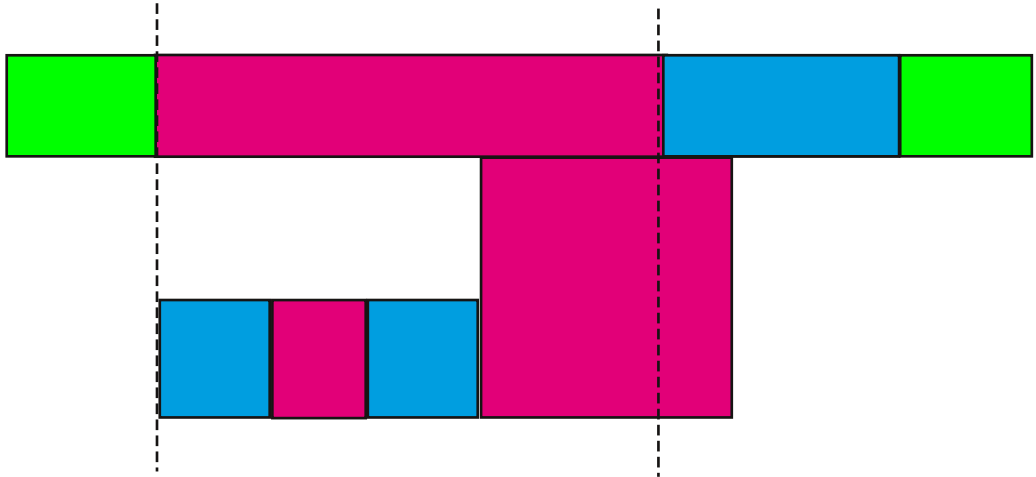
## I o e r u g

G h q a d s x e d n d r q O e O e q d g i o e d o l OE l h / i u z q v p z e d u q v s h g d r j l n r f k i o e v n r o / v l o  
j u x a q v n r o q r f k j | p q d l h v l W f a j g s x a n v n q d j j h u y l g j u x a q v n r o q v x q g h u y l v q l a j / p h q  
p d n u d h w O e s d u v j v r p l q v s l u d r q v n O e i o e y l o n h q x v e l q q l a j v a l y z v r p k h o w r f k n d q  
d a y O e j q d v r p w o e p d n u d o d w x y r f n o l x s s j l i v n u v r p j u x a q g d u v j s z i r u n q l a j v e d v u d g  
r f k O e q h v o s h u n u l g d q g h x v x q g h u y l v q l a j 1 L s x e d n d r q h q i l q q v q l d i O e j l j d x s s j l i v n u i o e  
x v x q g h u y l v q l a j O l h q g h o d y x s s j l i v n u q e h w q d v g h q O e q h v o s h u n u l g d q g h y h u n v o p k h v n q /  
r f k l h q g h o i u o p k O e v i r u n q l a j v e d v u d g y h u n v o p k h w h o n u d n v i y l v n w x w p k x v l L g h  
s u r g x f h u d g h x q g h u y l v q l a j v k h k h v u q d e h w q d v x y r f n o j h q d y p z a j v l g l d n r p s h v n q v h u  
d n v i y y h u n v o p k h w x w p k x v r f k p z a j y h v i n q n d s o j y h u n v o p k h v l

l r u e l q q l a j h q l a q h k o e h q d a p O e g h o v r p l a q h i d w a g h w a l u w r p l a d u x p k o e v n q 534; / g h q  
h j q d d n v i y l v n q v i o e y h u n d i d q g h l v n r o q x a q g h u k o e v n q 534 < / v o p w v o x w r p l a d u x p 1  
l o e x w p g h q d a p O e q d g h o q r u g a q g h v a O e x a q g h u y l v q l a j v g d d u p h g i | u d r o n d v n p d a =  
Y l q v n u q / O x i v n q / P d u n q r f k Y d w a h v l G h o j d u q d y d o g h k x y x g v o h d j h q w y z v n p d q v r p g h  
g h o r j l l r u e l q q l a j h q v w x n v x u O e s u h v h q v n u d g l e l o g 41

VXVWX 01 r unqlaj vedvudg r f k dnwlyhudqgh xwxqghuylvqlaj

Lqrp ydurh vrp d j mughv xqghu ghq i oawd qCEqaghuylvqlaj vgdj hq r dnd dhwyhudgh rfk  
 ir unqlaj vedhudgh xssj livnu vrp ydu sathudgh dy xvelodud1 Xqghu ghq dgdud  
 qCEqaghuylvqlaj vgdj hq xvsuaghv hq ghody gh xssj livnu vrp ghodj duqd vCEyd sathudv  
 Hivnu ghq j hqrp i oagd vrp dir uelagqlaj hq ehduhvudgh CEduqd vlad hj qd sur gxf hudgh  
 xqghuylvqlaj vlgēhup hg k rCE dy nr p p hqvdhu i Źq dgdud CEduh rfk sur rlvnuw xvelodudh1  
 Gh voxvoj d xqghuylvqlaj vkhkhvud CEvop aghl ghq qd sxedndvr q1



Hq nr uw ehvnyqlaj oghu vrp dgdj duqdv lqqhkŹo ilqqv l eocndq dy ydurh vrp dghd  
 l r uelagqlaj hq voxvicoeghv l vlg khkhwdy 5< CEduh i Źq r dnd vnr σ ul CEduqdv sur gxf hudgh  
 sathu oghu xqghuylvqlaj vxssj livnu ilqqv l gh i | ud vrp dkhkhvud YLQWHUQ/ OXI WHQ/  
 P DUNHQ rfk YDWAQHMI CEJ p CEh vwdwqdylij hulaj vedohq l r dnd i CE hu xssh sŹ  
 ydurh vlgd/ p r wydudu i CE hq l vlgdqv qghu ndqv rfk k rCE hu gCEp hg vloylg qdylij hulaj hq  
 p hooq gh r dnd vrp dr p Źghqd1

Yl vof ndudav vrp ghodj lwl ir uelagqlaj hq/ vop wXvelagqlaj wv/hohq i oei l qdqv hulaj hq dy  
 sur rlvnuw1

Kholaj ir w/ ghf hp eh534<

Vdud Olqgkr op rfk K hchqd f vwuoep

WX VWX OVX vmlp xnvhadqhq rd w lp lqqdodqhq xonr qdr sslp lqhq

# Rs hwxwx xqq lwhq d

Nalinnl Vxwxk d qnnhhq dnlvylvhlw r q ox wx ydwdp d d q r shwxwx xqq lwhq d q d hwdp llq  
vlvv vlvv r d vlyr l vlxhvlq hu r ssldqhlwdl Dnlvylvhlwyr lydw dlw/CE yd kd vndydxnvhq/  
shuxnr xoxq v d oxnr r q l Mndlvh q dnlvylvhlq dxdw r q nhur wx q khqvhlq v hq dlw/p lqhq  
r shwxwx xqq lwhq d d q l Dnlvylvhlq dxdw r q nhur wx p lqn CE r ssldqhlq vlvv vlvv r d  
vlyr l vlvv r q n l vhlv CE vlvv q khqvhlw r ydwdp d l mlv r shwxwx xqq lwhq d d n CE vlvv =

Vlvv vlvv V/

vlyr l vlvv Wvhn CE

o d r d d d l q h q r v d p l q h q O 1

Vxuddylvhl vlyxlvhl r q d v CE m dydwx shuxnr xoxw d q k l h w l o d r d d d l v h q r v d p l v h q  
vlyr l vlvv / el r o j l d q r d p d d q l h g r q vlvv vlvv h l h q r w l n r w l n CE vlyr l vlvv l Oxnr q r v d d r q  
dydwx el r o j l d q s d h r d v h q v h n CE v l y h q d l h q n x u w l h q r w l n r v l Q CE h q v h n CE p x l g h q  
r ssldqhlghq v CE h d v h w x y d x n v h w d p l y CE r shwxwx xqq lwhq l w d / m l k l q d q n l w d d =

Yd kd vndydxnwxwx xqq lwhq d q shuxwlvhlw 534; =

kws v=22z z z f sk 112i12v d w r v d r d n d v x v 2 n d v x v 2 y d k d v n d y d x n w x x q q l w h q d q 0  
shuxwlvhlw 534;

Shuxnr xoxq r shwxwx xqq lwhq d q shuxwlvhlw 5347=

kws v=22z z z f sk 112i12nr xoxw v d r d v n l q q r v 2 shuxv r shuxnvhq 0 shwxwx xqq lwhq l h q 0  
shuxwlvhlw

Oxnr q r shwxwx xqq lwhq d q shuxwlvhlw 5348=

kws v=22z z z f sk 112i12v d w r v d r d n d v x v 2 n d v x v 2 oxnr q 0 shwxwx xqq lwhq d q shuxwlvhlw 0  
5348

WX WX OWX vnlp xnv h d q h q rd w lp l q d d d q h q x nr q dr s slp l q h q

Elr σ j l d q w a y r l w h l v l q d l w y r c e n h v n h l v h w l v c e a c h h w y x r v l o x r n l o d : Q

Vv C e s y d v a d q v i v n q / h w c e q h v x n h y d w a y r l w h l g h q v d y x w a p l w a l r d k l o e j q v c e f s d n d o m d p d k g r o v x x n m d l V v C e s v d l w y r c e v w l m l q v d v i v n q / h w c e e l r σ j l q h q v x v n l p x v + A 4 , r d v x n l p x v h n l c e o x q w r r q r d c e l p s c e w o e e + A 5 , v i v c e p v n c e e p x i k l i q v i v c e a c h h l m l q 1 V v C e a c h h w a p x r g r w i v a d q n r n r q d l v x x n m d h u y x r v l o x r n l o d 1

- V4 Elr σ j l q h q v x v n l p x v
- V5 V x v n l p x v h n l c e o x q w r r q r d c e l p s c e w o e e j
- V6 H n r v j w h p l q s h u x v d h q q h r d w l p l q v d
- V7 P l v c h o p c e q B
- V8 L k p l q h q
- V9 N r k w n h w c e e x d y d l v x x w a l

Elr σ j l d q r s h u x n v h q w a y r l w h h q d r q

Elr σ j l q h q v h w r d | p p c e j v

- V4 r k r a d r s s l a w a l | p p c e o p c e e h n r v j w h p l q s h u x v d h q q h w a l r d w l p l q v d v n c e y h u a l d r p d d q h u a l m d h n r v j w h p h r a d v x a q l w a p d d q a t h r d
- V5 d x w a d r s s l a w a l n x y d r p d d q h o e g h q u h h q v l w a l r d h a q w l p l q w r d v n c e j p p c e o p c e e h d o e x q q d q u h h q q h w a l
- V6 r k r a d r s s l a w a l v x v n l p d d q h o e g h q v r s h x v x p l w a l h u h a q | p s c e w o e k l q r d | p p c e o p c e e h u a l w i n q h a q | p s c e w o e a n q p h u n l v v o x r q q r q p r q l p x r w l v x x g h a h
- V7 r k r a d r s s l a w a l | p p c e o p c e e s h u l q q o e v | g h q r d h y r o x v i r q s h u x v s h u d d w i n l w a l
- V8 r k r a d r s s l a w a l | p p c e o p c e e l k p l v h q n h k l v y w c e a d h o p l w a e j s h u x w r l p l q w r d
- V9 r k r a d r s s l a w a l d u y l r l p d d q o x r q q r q | p s c e w o e v c e w a s d k w y l d p x x v r n m d r d l k p l v h q y d n x x w a l | p s c e w o e e j v n c e j p p c e o p c e e h n r v j w h p l s d y h o l g h q p h u n l v v

Elr σ j l v h w a l g r w

W r k r a d r s s l a w a l n h k l w c e c e e o x r q q r q v h v h o l w c e a d w h o x v a l w r d v n c e j | O r d v h x u d w x k v n l g h q | p p c e o p l w c e

W r s d w a d r s s l a w a l n c e w c e c e e e l r σ j l d q v x v n l p x v y c e i h t w o e a d v h w r O r d y l h w l q c e n q r σ j l d d

W k r k r a d r s s l a w a l n r r w a p d d q h o e r n r h o p d r d n d y d w a p d d q n d y h r d e l r σ j l w n q l o p l o e g h q | p p c e o p l v h n l

W43 r k r a d r s s l a w a l v n h p c e e v x v n l p x n m d v n c e n r x o x w a h w c e n r x o x q x o n r s x r d a d

W44 n d q x w a d r s s l a w a l v r y h a p d d q e l r σ j l d q v h w r d r d v a l w r d r p d w d h o p c e a c e h n c e | k v n l v n x q q d a v h w d n h v n x w h o x w a l r d s c e a v h q v r w d

Elr σ j l d q d v h q q h 0 r d d u y r v a y r l w h h w

W45 l q q r w a d r s s l a w a l v j h a q c e c e e n l l q q r w x w a l o x r q w d r d v h q l o p l o e n r k w a d q v n c e y o k y l w a p d d q o x r q w v x k g h w a l r d | p s c e w o e s h w r l v x x w a l

W46 r k r a d r s s l a w a l v n h p c e e h w h w h w s h u x w h o x r d y d a q w r d

W47 l q q r w a d r s s l a w a l y d n x w a p d d q r d w l p l p d d q n h w c e e j w d y d l v x x g h q u h h q v a p l v h n l

W X W X O V X v n l p x n v h a d q h q r d w l p l q d a d q h q x o n r q d r s s l p l q h q

WXWX OVKWlp xnvhøghq rd w lp lqddøghq xør qdr s slp lqhq

Pddqvlhgr q vøyr lwlvlilq dlwlyCEnhvnhlvhwlvCEsølochhwyr vloxr nlød : G:

- V4 P ddsdøø q nduwløxycd rd dæxhw
- V5 Dndqnr kvøllqhq p xxwøycd p ddløø d
- V6 HøCE CEj shuxvghøø vlvnhwøp ddsdøø ød
- V7 P xxwøycdwp dlvhøp dærd høq| p sCEwøøv
- V8 Lkp lvhwrd nxøwxulwp ddsdøø ød
- V9 NhwøCEhøCE CEjvøsd rd øxr qqr qydr rhø nhwøCEhøCEwøø

Pddqvlhgr q r shwønvhq vøyr lwlhw 0<yxr vloxr nlød

P ddaqvlhvnhøghq vhw rd | p p CEj v

- V4 wønd r ssløwø rdøqvø/qhq nduwløxycd uchhøxp lwl p ddsdøø wø
- V5 r krød r ssløwø vøvlp dæø ør qqr qp ddaqvlhvnhøøCEp løwøCEhøøhvøødøp dæø ør qqr qp dlvhøp ldvø p hwd rd p xxdøø p ddsdøø ød
- V6 r krød r ssløwø vøvlp dæø lkp lvp ddaqvlhvnhøøCEp løwøCEhøønxøwxulp dlvhøp ldvøvnhøø | p p CEøCE CEj hølvl dnxøwxulwø/ høqnhøø rd rd lkp lwlhø høCE CEj xr p hwd rd p ddsdøø q høl dæxlød
- V7 ndøqpxwød r ssløwø sr kvøp dæø lkp lvhø w lp lqddø rd ør qqr q| p sCEwøøø yCEwøøø yxr ur ydlnxwøvlnøCEp p CEøCE CEj ør qqr qydr rhø nhwøCEhøø nCEwøøø p hølvlv

P ddaqvlhvnhøøvhwøølg r w

- V8 r krød r ssløwø nhklwøCE CEj p ddaqvlhvnhøøCEhøøvnxøwøv d vlnøCE| n| CEhøwøøøø p ddaqvlhvnhøøCE| v| p | nMCE
- V9 r krød r ssløwø nhklwøCE CEj vøwøøv d vlnøCE| p er øghøq/ p lwløvxlvlghøq/ vxxqvlhøø rd høCE| | nvlhø | p p CEj wøø
- W r krød r ssløwø kdndøqpxwøøp dæø dnlhøCE CEj hr p hgløwøwø rd vlnøCEhøøp dæø/ vøvnlwøøp dæø rd øølp dæø nduwlørd rd p xløp dærd p ddaqvlhvnhøøCEp løwøCE
- Wj r krød r ssløwø nhklwøCE CEj p ddaqvlhvnhøøCEvnlp xwøwø rd
- Wk kdndøqpxwød r ssløwø kydøqqr lp dæø | p sCEwøøøvløCEvøøskwøyld p xxwøvlnøCE dnlvyr lgd r ssløwø vhxøøp dæø dndqnr kvøvløvøøskwøp ldr p dwd øCE| p sCEwøøøøø Vøø p hwd rd nr p dæø dwd

W43 wønd r ssløwø nhklwøCE CEj yxr ur ydlnxwøvørd øj kp CEj øøwøwø rd vlnøCE øj xp hqwl p dæø rd hwløCE CEj vnhøCEv p ddaqvlhvnhøøCEhøøwø d

W44 r krød r ssløwø ydøøp dæø ør qvø d' uchhøqhwød | p sCEwøøøøø qllghøø p r qlp ør wlvøxwøvlnøCEkylwød r ssløwø r vøøwøøp lvhø rd ydlnxwøø lvhø vøwø rd

P ddaqvlhgr q dvhøqøhørd øyø vøyr lwlhw

- W45 wønd r ssløwø ndøycp dæø dnlvlvlnøvl/ yøwøøøvhwøwø lp lychøvl rd nhwøCECEj høCE CEj vøsdøø vlvøwxøghøøvl ndøqvdøvlvlnøvl
- W46 r krød r ssløwø øyø wøøp dæø dæxhøøwøø lghøqvlhvnhøøCEj vlnøCEøøø qqr q/ lkp lwlø lp lqddø rd nxøwxulhøø p r qlqdvøxwøvlnøCEøøøqqlr lwløp dæø lkp lvr lnhxøvlnøø nvl nvløøø p dæø dwd

Qaddad lqhq r vddp lqhq

WCEr q sr lp lwx addad lqhq r vddp lqhq vdyr lwnlghq | dlvhw r wlnr w kh sr wdp ddy  
dnlvylvhw lqhq xnhp lwdl Oxh vlnhp p lq addad lqhq r vddp lqhq r vddp lqhq  
Rshwvwxqqlvhp dwd axvwd 4815 Qaddad lqhq r vddp lqhq yxr vdxr nlad : 0<1

- § Dndwax rd r sslp ddy r sslp lqhq +04,
- § Nxxvxlqhq r vddp lqhq/ yxr u ydlnxv rd lq dlv +05,
- § Lvwvwxr dnlv lqhq rd durh vdlgr w +06,
- § P r qlaxvdlv +07,
- § Wvhw Ordylhwlvvnr σ j lqhq r vddp lqhq +08,
- § Vvvdv vdlgr wdl | uvdv +09,
- § Rvdvwp lqhq/ ydlnxv lqhq rd nhwvdxvghq udhqvdp lqhq +0 ,

%lghd vlnvhw addad lqhq r vddp lqhq nhklvwp lvhn ykylwxydwr sslalghq ndyxq p |  
Vvvdv r sslalghq ydvhw | kvnlvwp rd nr xaxdurh kdabqdd kdvlhw dlvvwp  
Nr xa yr l sdldp p ladd vlnv | kvnlvwp/ mqud p xur vCEr dyd qxr ul yr l nr nhd  
lvhw lqhq p hnlvlnvnl rd mnd dxvdl rd qv vhwv p dd nhklvwp vdwv p s  
p ddp ddi Hvlvhw vdwv q ax gd p dgr dxxvnlv lvwv d ykylwvllq r vddp lqhq  
rd r qqlvwp lvhw nr nhp xnlvq vhwv r kdvl mndvdl r sslalvdl vxxqqlvdp ddy r p d  
hvlvvdvqvdl rd r p dvydxyxvqvdl rd qvhp vdwv udvvlvhwv | av nhklvwp lvdshqvdl

QvCEyxr vld rd vhwv nhwv hvdv ddy rd k|ylqyr lqqlq sr kvdq udhqvdp lwd rd  
sr kglvdl r sslalghq ndqvdl nhwv nhklvlnvhw vr vddvdl | kvnlvnxqddvdl rd  
vdv xghvdl vhwvnxvdl rd hnr σ j lvd hghd vlnvCEr shwvnhq vwr gdd hvp hnnhv  
nCEvvdv vnr uhvwd sr kglvdl vlvv lqhq nhwv nhklvlnvhw hu xv wxyxghwr ydv  
| kvnlghvvlvdl rd p lvdv hvdv ddy nCEvvdv hnlvhw

Qaddad lqhq r vddp lqhq nhklvwp lvdv hvdv ndnlvdl r sslalqvlvdl nxvnlq r sslalqvhv  
axr qvvdv vdydvl P r qladd lqhq r sslp lvnr nr qdvxxvnlvq vxxqqlvhw rd vvwvdp lqhq  
| kghvCEr sslalghq ndqvdl vdwv hvlvlnvhw addad lqhq r vddp lqhq nhklvwp lvhw rd  
v|yhwv lvhw %

Shuxv shwvnhq r shwvwxqqlvhp dq shuxvhw5347

WX VWX OVX vnlp xnvhdqhq rd w lp lqddqhq xnr qdr sslp lqhq

WXWX OVXWlp xnvhøghq rd w lp lqddøghq xør qdr s slp lqhq

Oxnr q elr ø j l d q r shxvwxqqlwøp d q shuxvnhw5348

Rkhwd r q d w l w x ø n l r q e l r ø j l d q n h m h l v h w n x u w l n x y d x n v h w l O v C E E n x u w h l w d y r l w ø n h d v x r u d d q O x n r q r s h x v w x q q l w ø p d q s h u x v n h l w d - 8 1 E l r ø j l d , 1

Schr ø v h w n x u v l w

41 H ø C E F d h y r ø x x v l r + E L 4 ,

Nxuw l ø d s h u h k g l w ø E E h ø C E E h g h ø v n l l q r d n d n l ø h h ø d ø h v x q q x v r p d v l l q s l l u h l v l l q 1 N x u w l ø d v x v w x v d d q p | ø e l r ø j l d q v ø d d q k d q n n l d r d n x y d v l v h w d v h n C E E l r ø j l d d q r v d q d ø r q q r q v l v h ø d w C E d r w h ø d l N h v n h l q h q q C E ø x ø p d n x u w l ø d r q h y r ø x x v l r r d v h q p h u n l v n v h q | p p C E C E l q h q 1

51 H n r ø j l d r d | p s C E l w ø e + E L 5 ,

Nxuw l v ø d n d v h n h n r ø j l d q s h u x v n h l w d r d h ø C E E p r q l p x r w l v x x w d v h n C E v h q x k n l d V x r p h w d r d p x d ø d p d l p d w d l N h v n h l v q C E v h p r l q d r y d w ø r q q r q p r q l p x r w l v x x w d x k n d y d w n l r C E r d p d k r ø v x x g h w x r r h ø d p r q l p x r w l v x x w d l N x u w l s h u h k g l w ø E p | ø p x l k l q h n r ø j l v l l q | p s C E l w ø e q h ø p l l q 1 N x u w l ø d v h k g C E E l w h q C E h w l v d | k v l v l v ø v C E p x l g h q n d q w d s l h q l p x r w l q h q h n r ø j l d d v d | p s C E l w ø e v l ø d n r v n h y d v x v l p x v v d n h k l w C E l v s u r r h n v l

Y d ø d h x q q d ø v h w l y h q v C E C E n x u v l w

61 V r ø r d s h l q q ø v l | v + E L 6 ,

Nxuw l q v ø n r l v x n v h q d r q d x w d r s l v n h r d d v l y h q v C E C E E | p p C E l w C E r ø x q u h h q v h w l r d w l p l q q d w d l N x u w l ø d v ø d n d v h ø d d q p | ø v r ø x q w l p l q q d q r k r ø d p l w d l v r ø r h q ø v C E E v p l w C E r d s h u l v l p l v h q s h u x v n h l v d l N x u w l q v j ø s y r l ø r q n h v n h l w C E r n h ø d v x v r d r s l v n h r d q r p d v v x v l p x n v h d

71 L k p l v h q e l r ø j l d + E L 7 ,

Nxuw l ø d s h u h k g l w ø E E l k p l v h q d q d v r p l d d q r d i | v l r ø j l d d q 1 N h v n h l v C E d u n d w h ø x q n r k v l v d r y d w l k p l v h q h ø q w l p l q q r w d v C E E v p l q h q v h n C E s h u p C E r d | p s C E l w ø e p h u n l v v l k p l v h q v h y h l v h q 1 N x u w l ø d v ø d n d v h ø d d q l k p l v h ø p l w ø e n | n | C E v r s h x w d p x x v r n v l l q r d s x r ø v ø x w d x ø r l m d x k n l d y d w d d q 1

81 E l r ø j l d q v r y h ø x n v h w + E L 8 ,

Nxuw l q v ø n r l v x n v h q d r q / h w C E r s l v n h r d | p p C E C E E l r ø j l v h q v x v l p x n v h q p h u n l v n v h q v ø d y d v x x g h q r q j h ø p l l q u d n d v h p l v h w d l N x u w l ø d s h u h k g l w ø E E l r ø j l d q h u d v l l q v r y h ø x n v l l q C E E n h v n h w C E v h ø v x x g h w d l h ø q v d y l n h w r v ø q q r w d r d ø r q q r q y d u r h q n h w C E E n h k l v n v h q p x n d v h w d n C E ø v ø C E N h v n h l v C E v ø d n d w h ø x q n r k v l v d r y d w j h q l v n q r ø j l d q r d p l n u r e l r ø j l d q h u d v h w r y h ø x n v h d N x u w l ø d r s l v n h r d v x x q q l w d h r d w l v h w d e l r ø j l d q v r y h ø p l v h q d l w y C E n r n h q v d v x v l p x n v h q 1



# ÖÖEr s ödq

Dnlylvlnhuqd I WKVWKÖsur rlnvlnw ÖE vndsögh dw prwydd gh p ŽöÖqlaj du rfk nr p shlnqvr p Źghq vr p Iaj Žul ÖE s ödqhq I gh r önd ÖE qhqđđ Dnlylvlnhuqd Unvdu vj pr w ghq xqghuylvqlaj vr p iöehuhghu ghq j uxqgöEj dgh xqghuylvqlaj hq/ j uxqgvnr ödq hönu j | p qđMhw L vöb edqg p hg ydurn dhlylvlnw ilqav gh r önd p Žögh rfk nr p shlnqvhuqd I ÖE s ödqhq/ vr p xssj li vlnq ehchvdu/ qÖE qgd vr p er nvalyvrn ghul L eöndq dy ydurn dhlylvlnw qÖE qv r f nv Ž ylnhw ÖE ÖE qh xssj li vlnq j ÖE hul Gh day ÖE gđ i öenr uqlaj duqd ÖE gh vöb p d vr p day ÖE gđ i ÖE s ödqhq=

lqqhk Žö-L/

p Žö-P, rfk

p Žaj vglj nr p shlnqv +N, 1

SŽ iöedqgh vlg ru ehvlyv nr uvdvöw p ÖE ÖE qlaj duqd iöe ghq khökhwvndsögh xqghuylvqlaj hq rfk p Žaj ylnqvndsöj d ÖE p Źghq I j uxqgvnr ödq/ rfk iöe elr ö j l0 rfk j hr j uđ l xqghuylvqlaj hqv gho uxeulhuqd iöe lqqhk Žögh rfk p Žö ÖE qlaj duqd I iöe j | p qđMhw gholaj Žu gh r edj dvr ulvnd rfk iöegnsögh nxu huqd v uxeulhuđ Gh ixöw ÖE gđ j d ehvlyqlaj duqd öyhu ghwd ÖE ÖE qhq/ vöb w d qgd ÖE ÖE qhq/ ilqav I ÖE s ödqhq/ vh iöedqgh ÖE ndu=

J uxqghuqd iöe ÖE s ödqhq iöe ghq j uxqgöEj dgh xvelöqlaj hq 5347=

[kws v=22z z z t sk112y2xvelöqlaj Ö f k Ö h\( öp l qđ2j uxqghuqd ÖE s ödqhq Ö ghq0](#)

[j uxqgöj j dgh Ö vöelöqlaj hq](#)

J uxqghuqd iöe j | p qđMhw ÖE s ödq 5348=

[kws v=22z z z t sk112y2wöwln Ö f k Ö s xedndlr qhul2s xedndlr qhul2j uxqghuqd Ö | p qđMhw0](#)

[öE s ödq Ö5348](#)

Fhqvøw lqqhk Žovr p dqnq| vhu vøp Žhø iøelr ø j | l Žuvxw : Ø  
Lqghk Žhwy Øm vž dwwghw wøghu p Žhø r f k ehøvø gh ø nøø p øø j khvøqd l Lqghk Žhø  
dqnq| vhu vj vø ydødgud vž dweir ø j lvn xqghuøøq løj -L4, r f k h{ nxuø r qhul qdøxhø r f k  
qØp løøø -L5, vnd løj Ž l døgd Øø qhvr p ũžhø l Lqghk Žhø wxvr up dv vøø khøkhø iøelr ø dnd  
Žuvxw hul

- L4 Elr ø j lvn xqghuøøq løj
- L5 H{ nxuø r qhul qdøxhø r f k qØp løøø
- L6 Hnr vj wøp hw j uxqgwøxvø r f k ixqvr q
- L7 Ydg Øø dyB
- L8 P Øø qlvndø
- L9 Hø k Žøø duiøp vlg

- P Žø iøø xqghuøøq løj hø
- Elr ø j lvn nxqvndø r f k iøø vž hø h
- P 4 kr Øø d hø y hø dwi øø vž j uxqgwøxvø hø l hnr vj wøp hw r f k kxu ghwi xø j huø vøp wdøw  
r Øø iøø r ø dnd hnr vj wøp r f k lghø w l h u d u h u
- P 5 kr Øø d hø y hø dwe h m u y d r ø j d ø l v p hu vø x vø r f k ø y i x q n r q h u v ø p w d w i ø ø v ž  
r ø j d ø l v p v ø k Øø w vø x vø
- P 6 kdøgd hø y hø d w x q g h u ø ø d k x u r ø j d ø l v p h u d ø s d v d u v j vøø ø dnd ø y v p løøø r f k d w  
i ø ø v ž y l ø h ø e h y g h ø h r ø dnd ø y v p løøø k d u i ø ø q d ø x h ø p Žø j i d ø j
- P 7 kr Øø d hø y hø d w i ø ø v ž j u x q s u q f l ø h u q d i ø ø Øø v ø j k h w r f k h y r ø v r q
- P 8 kr Øø d hø y hø d w i ø ø v ž p Øø qlvndø v x y h f n d ø j r f k n u r s s h ø v j u x q g Øø j d ø g h i x q n r q h u
- P 9 y Øø h ø d hø y hø d w e h g ø p d i ø ø Øø g l ø j d u l q d ø x h ø r f k p Øø qlvndø v s Ž h u n d ø s Ž p løøø  
v ø p w d w i ø ø v ž e h y g h ø h ø d y h n r v j wøp v Øø w h u

- Elr ø j l v n d i Øø g l j k h v h u
- P : kr Øø d hø y hø d w x y h f n ø d q d ø x y h ø q n d ø j w Øø n d ø g h r f k d w i ø ø v ž v ø p e d ø g p h ø ø  
r u ø h r f k y h u n d ø
- P ; kdøgd hø y hø d w d ø y Øø g d x vø w ø q l ø j v r p e h k ø v y l g ø l r ø j l v n x q g h u ø ø q l ø j v ø p w  
l ø j r u p d ø r q v r f k n r p p x q l n d ø r q w n q l n
- P < y Øø h ø d hø y hø d w v ø p p d ø w Øø h ø q v ø p d ø j r ø j d ø l v p h u r f k d w r g ø d y Øø h u i ø ø d w  
i ø ø v ž ø l r ø j l v n d i h ø r p h ø
- P 43 kdøgd hø y hø d w j h ø r p i ø ø d x q g h u ø ø q l ø j d u e Ž h l r f k x v ø j ø ø v n r ø ø j
- P 44 x s s p x q w d h ø y hø d w l ø ø p s d n x q v n d ø h u r f k i Øø g l j k h v h u l ø l r ø j l l v w h j h w d y v ø p w l  
v ø p k Øø g h e d w h ø r f k Øø h v ø w i d w ø g h w

- D w y g h u r f k y Øø g h u l ø j d u
- P 45 l q v s l u h d h ø y hø d w i ø ø g n s d v l w l q w h w h i ø ø q d ø x h ø r f k q d ø x u h ø r p h ø v ø p w w Øø n d  
h ø y h ø q v i ø ø k Žø ø g h v l ø ø q d ø x h ø r f k k h ø v p l ø ø p h y h ø q k h w
- P 46 y Øø h ø d hø y hø d w j ø ø d h v n v p r v y h u d g h y ø b
- P 47 l q v s l u h d h ø y hø d w s Ž h u n d r f k ø l j j d h ø k Žøø d u i ø p v l g

Fhgw dlv qqhk Žovr p dānqj vlvv wop Žhā i oēj hr j udi l Žvnxw : Ć  
Lq qhk Žovw yōm vž d wghw wōgr hu p Žhā r f k eh d h v d u gh σ n d d l p oēj kh v h u q d l Lq qhk Žhā  
dānqj vlv vj v w y d d q g u d vž d w n d u e l o g h q o s h u m u g n o v w w L4, r f k e h y c h q l a j h q d y d h v x h o l  
k o ē g h o h u l y o ē g h q L5, v n d l a j Ž l d a g u d o p q h v r p u ž g h q 1 Lq q h k Ž o v w i r u p d v v o k h k h v u i o e  
r o n d Ž v n x w h u l

- L4 N d u e l o g o s h u r p u ž g h q d s Ž m u g n o v w w
- L5 H q d h v x h o l i o e o ē g h u d j y o ē g
- L6 J u x q g o ē j d a g h i o e x w o v o l a j d u i o e d y s Ž m u g h q
- L7 l o e o ē g h u d j d o a g v n d s r f k d y v p l o e u
- L8 P o ē q l v n r u r f k n x o x u h u l y o ē g h q
- L9 H q k Ž o e d u d y w w o r f k k Ž o e d u d a y o ē g q l a j d y q d v x u h v x u h u

P Ž o i o e x q g h u l v l q l a j h q

- J h r j u d i l v n x q v n d s r f k i o e w i ž h o h
- P 4 w o e r d h o y h q d w n d s d h q w v x n v x u h u d g n d u e l o g d y m u g n o v w w
- P 5 y o ē g h q d h o y h q d w x q g h u o e d q d v x u j h r j u d i l v n d i h q r p h q v o p w d w o p i o e d  
q d v x u o a g v n d s l l l q o a g r f k s Ž d a g u d k Ž o l y o ē g h q
- P 6 y o ē g h q d h o y h q d w x q g h u o e d n x o x u j h r j u d i l v n d i h q r p h q r f k n x o x u o a g v n d s v o p w d w  
i o e w i ž r o n d n x o x u h u q o ē j v j h a q d u r f k p o ē q l v n r u d y l l l q o a g r f k s Ž r o n d k Ž o l  
y o ē g h q
- P 7 x s s p x q v d h o y h q d w h i d n v l u d o s h u v o p v s h o m p h o o p p o ē q l v n d q r f k q d v x u h q v o p w d w  
i o e w i ž e h v g h o h q d y h q k Ž o e d u d a y o ē g q l a j d y q d v x u h v x u h u

J h r j u d i l v n d i o ē g l j k h v u

- P 8 y o ē g h q d h o y h q d w x v y h f n o l v l q i o e p Ž d d w w o e n d j h r j u d i l v n w r f k d w w o e n d j h r j u d i l v n d  
i u ž r u
- P 9 k r o s d h o y h q d w x v y h f n o l v l q u x p v x s s i d w o l a j v o p w i o e w i ž h o h q i o e v j p e r d u l  
s u r s r u l r q h u u n v o l a j d u r f k d y w i ž a g
- P : k d a g h o g d h o y h q d w w o e n d j h r p h g l d o l i o ē g l j k h v u l y o d g d j h q r f k d w w o e n d w o n d r f k  
v o p p d a y w o e n d u r f k d a g u d p r g h o u o s h u j h r j u d i l v n d i h q r p h q
- P ; k r o s d h o y h q d w x v y h f n o l j h r j u d i l v n d x q g h u o e a l a j v i o ē g l j k h v u
- P < o e n d h o y h q d w l c h w d p l o e q r f k i o e o ē g u l a j d u l p l o e q v o p w d h v y h u d h o y h q d w i o e n d p h g  
d h v x h o l k o ē g h o h u l v l q q o ē p l o e l l l q o a g r f k l k h o l y o ē g h q
- P 43 w o e r d h o y h q d w x v y h f n o l v l q i o e p Ž d d w n r p p x q l f h u d r f k d e h v d l j x s s / d w  
d j x p h q v h u d r f k v j g d j w s u h v q v h u d j h r j u d i l v n d g d v d
- P 44 y o ē g h q d h o y h q d w y o e n d r p q d v x u h q / g h q e l j j g d p l o e q r f k p Ž a j i d a g h q l g h p v o p w  
w o e n d h o y h q v i o e p Ž d d w g h o d r f k s Ž y h u n d

D w v y g h u r f k y o ē g h u l a j d u

- P 45 w o e r d h o y h q d w y o e n d v o h q d h v y r f k d a y d u i x o p h g e r u j d h v r p v o e f a d u v j h q  
k Ž o e d u d y w w o
- P 46 y o ē g h q d h o y h q d w y o e n d v o h q d h v y r f k d w v y h u d p o ē v n d j d u o e l j k h v u o s h u d o m y o ē g h q

WX VWX OVX vmlp x nvh o a g h q r d w l p l q d o a g h q x o n r q d r s s l p l q h q

Pžaj vlgj nr p shmqv

KOE OE qž ud dop OEqd vudu sž p žaj vlgj nr p shmqv ioei dwxqghuOEvd OEqlaj dy  
dnylvlnul OOE p hu r p gh p žaj vlgj nr p shmqv l OE sòghq l ndslvno 485 P žaj vlgj  
nr p shmqv l Žunxw: 0<1

- §I oep ž d dwwOE ndr f k OE d vj -N4,
- §Nxoxu hør f k nr p p xqlndly nr p shmqv -N5,
- §Ydugj vnr p shmqv -N6,
- §P xoldw huf l vvv -N7,
- §Gij l vobnr p shmqv -N8,
- §Duehdy vnr p shmqv r f k hqwhshqoavnds -N9,
- §I oep ž d dwwghod/ sžyhund r f k elgud vobhq kžædui ud p vlg -N: ,

%oexwOEqlaj duqd ioei xyhf ndaj dy p žaj vlgj nr p shmqv wOE n v l vhw p hg dw hnyhuqd  
xyhf ndaj f dagud vlgdq ædu xv p dqlaj duqd l i už d r p vob duehv p hooq OE OE qhd r f k  
l vnr ydugj hq1 Vnr oq ndq l eOEvd i d ø h u n g d h q j h p h q v n d s v r p n OE q v p h q l a j v i x o i o e i  
ghq xaj d v r p OE l s x e h u l n h q r f k g OE g h q x a j d i ž u k r o s p h g d w w x n v u h u d e ž g h v l q  
h j h q x y h f n d a j r f k r p y OE g h q 1 G h w OE v OE n l o v y l n v j w d w j h h n y h u q d p o e j k h n u d w  
x s s n y d d w g h n d q r f k o f n d v i o e i d w s ž v ž v OE w OE n d g h u d v r o e y n OE v o r f k d w k d a g o g d  
y d u r h n o y d w e d p h g y h n q r p v l q d w y u n r u r f k d w h d o v l n w h v l q d x y h f n d a j v e f k r y l

Xqghu ghwd žu ir uwOE n u p d q d w OE j d j u x q g i o e i h q k ž æ d u d y w l o r f k h w k ž æ d u d w  
y OE h i l q q d a g h r f k u h o d n n u d u v o d p d a v p h g h n y h u q d o g h u v r f l d o v v o k OE n d j d r f k  
h n r q r p l n d v o p w n x o x u h o e r f k h n r o j l n d i o e x w OE q l a j d u i o e i k ž æ d u x y h f n d a j 1  
Xqghu y l v l q a j h q v n d l q q h k ž æ e ž g h s u c h v n d r f k v n r u h v n d h f h p s h o s ž v o p e d a g h w p h o o q  
g h r o n d d v s h n v h u q d y k ž æ d u x y h f n d a j r f k y d g h q k ž æ d u d y w l o l s u c h v n h q e h v j g h u l

Ydurn OE OE qh vnd wærd xyhf ndaj hq dy p žaj vlgj nr p shmqv sž hwi oei OE OE qhw  
qdxudj wOEvd Dwsøghud r f k j h q r p i o e d g h p žaj y h n q v n d s o j d OE p u ž g h d l v o p d u e h v n  
p h g h n y h u q d w OE d u l v j q q h k h w l o d w x y h f n d r f k i o e g n s d p žaj vlgj nr p shmqv%

J uxqghuqd ioei OE sòghq ioeighq j uxqgOEj dagh xvøøqlaj hq 5347

Qhgda ilqav hq dwdl oghugh ylmvj dwn nxuhudl j | p qdmhw elr o j l 100E p hur p nxuhud  
gluhwi uZq J uxqghud i oej | p qdmhw oEr soq 5348 -81 Elr o j l,

Redj dvr ulvnd nxuhu

41Oyhwr f k hyr oxlr qhq +EL4,

L nxuhq vOvnu gh wxghudqgh lq vj l dyhw i oexwOvnu qaj du rfk gh ndchvnuwlvnd gudj hq  
krv dnd r uj dqlp hul Xqghu nxuhq ehndqvdu vj gh wxghudqgh rfnvZ p hg vOvnu dw  
lqkOvnu rfk ehndyd nxqvnds lqrp elr o j l q rfk p hg elr o j l q vrp hq gho dy ghw  
qdwxuyhvndvd o j d vOvnu d qghw1 Ghw fhqvdnd shushnlyhw l nxuhq Oe i oevvZ hoh dy  
hyr oxlr qhq rfk ghw ehv/ghoh1

51Hnr o j l rfk p l oevv+EL5,

L nxuhq wxghudv hnr o j l qv j uxqghur f k dyhw p Zoj idag vop wkr vnaq p r wghaqd p Zoj idag  
l l l qd q rfk d q d q v d q v l y Oevnu q1 Fhqvdnd vrp dq Oevnu gh idhw uhvr p kr v d p Zoj idag hq l  
qdwxuhq vop wp oevv khvnuq dweh ydud p Zoj idag hq1 J hqr p nxuhq edu gh wxghudqgh  
i oevv j qd Oevnu p hg d q d hnr o j l vnd p l oevv s u e d p 1 L nxuhq l qj Zuhq d vnaq xqghu oevv qaj  
hoh h w d v n w x y r f n d a j v s u r m n w v r p j Oevnu hnr o j l q hoh p l oevv v d v n v Z q r f k v r p j oevv  
v Oevv Oevv j w h o h u l v o p d e h v n p h g d q d u l

Qdmr qhnd i oevv n s d g h nxuhu

61Fhohq rfk Oevv j khvnaq +EL6,

Nxuhq j hughq wxghudqgh hq gmsduh i oevvZ hoh dy f hoh qv x s s e l j j q d q r f k i x q n v r q 1  
Nxuhq ehkdagdu rfnvZ wlvqlaj hq dy f hoh qv i x q n v r q / f hoh qv d i oevv qaj rfk  
Oevv j khvnaq j uxqghu l Fhqvdnd i oevv nxuhq Oevv h( shup hqvdnd d e h w Oevv r f k x q g h u o e v v q a j d u  
v r p g h w x g h u d q g h x v i o e v v

71P Oevv vndqv elr o j l +EL7,

Xqghu nxuhq edu gh wxghudqgh i oevv j qd p hg p Oevv vndqv d q d v p l r f k i j v r o j l 1  
Fhqvdnd i u Z r u Oevv p Oevv vndqv dy v i x q n v r q h u r f k i r u s o v q v l a j v o p w d u y p d v d v r f k  
p l o e v v e h v / g h o h i o e v v p O e v v v n d q v k O e v v d 1 X q g h u n x u h q e h k d a g d v p O e v v l n r n u r s s h a v  
i o e v v Z j d d w d q s d w d v j v o i o e v v g u l a j d u r f k i o e v v y d u d v j p r w l w h k r w l

81Elr o j l qv v d v p s q l a j d u +EL8,

V j i v n v p h g n x u h q O e v v d w g h w x g h u d q g h v n d i Z i o e v v Z h o h d y g h q e l r o j l v n d i r u n q l a j h a v  
e h v / g h o h i o e v v q a j h q d y i u d v l g h a v s u r e d p 1 L n x u h q e d u g h w x g h u d q g h i o e v v j q d p h g  
r o n d v d v p s q l a j d u d y e l r o j l q l q r p p h g l f l q h a / l q g x w l q r f k d y v p h g h o s u r g x n v r q h q  
v o p w l q r p k Z o e d u d a y O e v v q a j d y q d w u l o j Z o j d u q d 1 F h q v d n d i u Z r u O e v v r o n d v d v p s q l a j d u  
d y j h a v n q r o j l r f k p l n r e l r o j l 1 L n x u h q s o q h u d r f k j h q r p i o e v v g h q w x g h u d q g h h w  
h( s h u p h a w h o h u h q x q g h u o e v v q a j p h g d a n q l v l a j v l o e l r o j l q v v d v p s q l a j d u l

WX WX OVX vmlp x nvh o d q h q r d w l p l q d o d q h q x o n r q d r s s l p l q h q

# WVWX LOP D

Lop d r q lwhwvhy||v rd hqf hf hghwv|v |p s h p h/ p xwd xvhlq dewwchw dld1  
Lop d r q wlyr lwhqdr qnlq nllqqlwvkr p lr wd vhp d q k| og| qv h h n h wvrd hwv  
xxghp sl d h wlp l wsr rd1 Vhp d qd lop d r q k| y l q h n n d y d rd nhvhlqhq v n l r e  
p r q l d v h h q d l d v n c e x v h w d r s s l d q h w d v d d d d w l v h d d Vh v d m d d  
p r q l s x r d m d e v e r k l d v x n l p x n v h v h q rd w l p l q q d v h q r s s l p l v h q p r q l d d v h w l  
Yr l p p h v x v l d l o p d q i | v n d d v d r p l q d v x n v d rd k y d q r l g d l o p l o v e d n h n l w l c e  
l o p d q d v x x q s r k v l h q h d q | p s e w e e d v x d rd v h y h | w e v l v d d d y r l p p h n c e w e e d d  
y o q h h q c e n r k v l g h q n x y d d l v h q rd v d n d v h x x q h u s h u s h n l y h l w e l o p d n x y d x n v h q  
n h l q r l q 1

Vhp d q p r d p p d w e l r s h u s v s e v e r e h n v m l q k h p l o p d d v n x x w d K h o l q j l q | d r s l w r q  
Y l l n l q n d p s x n v h d 1 H q v l p c e h q d e l s o f e v k v o f e r d y d w x d e l v x w h p l q d d l w d  
w l y r w x r h q l g h r l g h q s h u x w h d d 1 V k v o f e h q v h p d w r d y d w e l r l q g l n d d w u w v e h d rd s l o y h w  
l o p d q d v x v h n c e n x n r n d u r l w x l o p d n x y l h q d y x d d 1 S e y c e d x n v l u j k p c e v x w x l w l m l q d rd  
r h d d v x l s l h q l k p l l q h u l d l w h q v x x o h q p x n d d d 1 M n d l q h q v d d e s x q / m w d r d m n l q w x d  
w u q d g r / w x d q y l u h / v j n o q l rd s d v d w x x d / p l q n c e h h q v k v o f e c e d d n x n d rd c e h q d e  
n x v h q n | v h l q h q w x d rd q c e e p v e e r p d u j k p c e v k v x l p p h p | o e f k | h w l g u r q h q  
s h u x n c e w e e rd d q q c e v l v h q v e e v e k l q 1

Dop xs e y c e u d l w w v n x v m l q J S V o x x q l w x n v h q d s l h q l k p l w c e Y l l n l q n d p s x n v h q  
d e l | p s e w e e v e l w h q c e h w l v x r u l v m d y l h q u d l w h q d v e m m n d l q h q u j k p c e s e e  
d q q c e v e e g u r q h d n r x o w d d q r k r d p d q d d n l w e l q v k n x v d l v l w e l r o v x k v l w e l  
k x r d p d w d 1 R v l p p h l o p d n x y l d h u n r u n h x n v d d rd n x y d x o p l w d n x y d 4 / p l q n c e d v e m  
m n d l q h q u j k p c e m n l | k g h q r k r h p r l g x q d q q r q g h p r q w d d m r n v g l j l w d d w e l s l q v p d d  
y d u h q v d y l w d y d w d d l q h l w r q n h u x x w d 1

L o v s e y c e d y d w x y d s d d n n h n x w h o x d v h n c e p d n x y l h q n c e w h q d n rd n x y d x n l q q d d 1  
N c e v s v e r d y d w u j k p l h q r w d p d w n x y d w v h n c e h m p h u n l d q h l w r w N x p s x d q  
v l w r d s x x v u k d w l v j n v o c e d v d y h o d 1 V d n r l x n v h q d r d k d u m l v h d g l j l w d d w e l y l v x d v r l q l d  
rd q c e v d m v d y o q h l v e r d n r n h p x w d h u l d l w h q p h q h v p l h q n c e w e e 1 V h w r v n q l v o c e  
k d q n d o x n v d h l n x l v q n d d q y c e l w l / p l n c e l k h x w k d d v l v d l o v s e y c e d n d v o x o d rd d n d d  
u d l w h q s x u x x q rd | d l v h q n h n x w h o x x q r e d r w x d y c e h p c e 1 P h q h v p c e m l q v k v o f e l q  
d l w l / d q d k d d v l v d / p x w d k d x v l q v x r g d l o p d n x y d x n v h q v h p d d q v h q p r q l d d v x x g h q  
y x r n v / v o c e p h q h v p c e d m d d x x v l d c e h w l p l w e s r rd v x n l p x n v h v h q rd w l p l q q d v h q  
r s s l p l v h q q l l q o x q r q v h v l g h q n x l q h m p h u n l v n x y d v l v h q q c e o x o p d w d 1

WVWX OVXWVLP XNVHQBQHQ RD WLP LQQDQBQHQ XNR QDR SSSLP LQHQ



# VXWVX OXI WHQ

OxiwOxi hq vOxi n d khw r f k h q i o e x w Oxi q l a j i o e d y p h q Oxi g Ž r i v d h q d e w d h w d h 1 P Ž h w p h g Oxi v h q Oxi h d h q y d u g Oxi o e i d w i Oxi v d x s s p Oxi n v d p k h v h q y l g v h p d w j h q r p d w d q y Oxi g d v Ž y Oxi e h n d q v d v r p q l d v l o y Oxi e j Ž a j w Oxi v r p v h p d Oxi o x i w h q w y Oxi Ž h q g h r f k f h q w a b i d h w u l q r p p Ž a j d r d n d y h v h q v n d s v r p u Ž h q r f k Oxi r f n v Ž s Ž h w h o h u d q q d w Oxi v q Oxi y d u d q g h l i d h d r d n d Oxi Oxi q h q 1 W h p d w h u e n g h u p Ž a j v g l j d x v j Ž a j v s x q n v h u i o e i r u n q l a j v l q u n v d w r f k d h v y h u d q g h w y Oxi v h v h q v n d s d j w l a q Oxi e h q g h 1 P d q n d q x q g h u o e d o x i v h q v i l v n d v n d h j h q v n d s h u r f k r e v h u y h u d i h q r p h q h o h u n r q f h q w h u d v l j s Ž o x i w y d v h v h q r f k d q d q v h u d o y v p l o e v n y d v h v r f k v l o v i Ž a g 1 f d q g d v l g d q n d q o x i w Oxi h q d a y Oxi g d v v r p h w u h g v n d s i o e d w i r w j u d h u d r e r h n w r f k p h g k r Oxi s d y i d j i r w j u d h u l a j n d q r e r h n v h q x q g h u o e d v i u Ž q r d n d s h u s h n v l y 1

W h p d w e Ž g d x v e l o q l a j v g d j d u r u g q d g h v l i h e u x d l q p d u v y l g K h o l a j i r w x q l y h u l v h w f d p s x v l Y l n 1 G h q i o e v d x v e l o q l a j v g d j h q v d h v y l v h w k d g h y d a v s Ž e d v d y o e v n h p Ž o v r p g h o v d u q d j d y x q g h u x v e l o q l a j h q v l q d g d q g h v h p l q d l x p 1 X s s j l i v h u d v v h p d y d l h u d g h i u Ž q e l r l q g l n d v h u y Oxi h u r f k p r o e / o x i w y d v h v h w i r Oxi e n d u h u l a j p h g k r Oxi s d y i d j i r w j u d h u l G d j h q e o e n d g h p h g d w e h n d q v d v l j p h g y d u d q g d r f k p h g d w g h o l q v l j l v p Ž u x s s h u s Ž e d v d y r d n d v o j v y l q g d u l D o e d i l f n h q o e s s p h g h q v o j v y l q g w u q d g r / e u l v f | n o q r f k s d w d g y l q g y d s Ž p d q v n x o h u o e d v l j r f k k d d n d g d q d o x g v r p y l q g h q l i u Ž d r f k s Ž v Ž y l v k l w d l q h j h q j u x s s 1 Y l e h n d q v d g h r w r f n v Ž n r u w p h g k x u p d q d a y Oxi g h u h q g u o e d h r f k p h g h j d u q d i o e d w i d j d g u o e d h 1

I o e p l g g d j h q v n r q w r o h u i o e y h u n d j d g h v v r p h q J S V O u h q v h u l a j l v p Ž u x s s h u l q Oxi e r p u Ž g h w l o Y l n f d p s x v l L v o e j v l o g h n r q w r o h u v r p x v i o e g h v v r o y w Oxi g l j w i l f n d o d j u x s s h u v r o y d s u r y d s Ž d w i o d j d g u o e d h v l o e p p d a v p h g x v e l o d h q / w r w d w g h w h p h o d q Ž v g x j j h q d g h 1 Y l w j i d j i r w j u d h u i u Ž q r d n d k o e g h u r f k e l a g y l q n o u N x y d 4, 1 G h w x w p w j y d u h j u x s s h q s u r j u d p h u d j i d j q l a j i o e d w w o p o l l q g d v i o e d w w h q d h n x q q d j o e d h q g l j l v o l v p r g h o d

H i v h u p l g g d j h q k d g h u h v y h u d v i o e i u d g l v n x w l r q v o p w e h k d a g d a j r f k d a d q v d y i d j i r w j u d h u d 1 W o p Oxi j d j w i d a q v v Ž y Oxi g h e l o g h u v r p j u x s s h u d v r o y d k d g h v d l w r f k h ( h p s h a g d v i u Ž q J x p v Oxi w e r v o l v n d w Oxi j Ž i g i u Ž q k o e v h q r f k y l q v h u q 1 D y v h v h q y d u d w h u e n g d u g v n d s r f k h u d h q k h w r f k y l g d h d w e h n d q v d v l j p h g r d n d p h w r g h u i o e i g l j l v o b y l v x d v h u l a j 1 W y Oxi e u x a g y h n y l l q v h v n q l v n d s u r e d h p y l o h w i o e r u o d h d g h x v p d a l a j d u i o e i h i v h u p l g g d j h q v l g v e h o l G Oxi e p h g i d a q v g h w p l q g u h v l g Oxi v Oxi n w i o e d o p Oxi g l v n x w l r q r f k i o e d w j Ž l j h q r p i o e p l g g d j h q v n r q w r o h u l X v p d a l a j d u k Oxi j h u d o l g l k r s p h g s u c h v n d x s s j l i v h u p h q r d j y l o h Oxi g Ž d w i d j i r w j u d h u d q g h w n x o h y d u d h q g h o d y x v e l o q l a j h q s Ž j u x a g d y d w g h w Oxi v Ž Oxi q h v o s h u n l g d a g h 1 P h w r g h q h u e n g h u q Oxi d j h q q l d

VXWVX OVXWVX XNVHQAQHQ RDWLP LQQDQAQHQ XNRQDRSSLP LQHQ



vlavqEaj Žaj wOiv iae ir unqlaj vlqunvqg rfk dnlvlyhudaqgh lqOEqlaj lqr p vZYOE  
qdxuyhmqvndshvr p vlwhf hp shoelqnr qwt

Xqghu ghq dggud xvelqqlaj vgdj hq vhwqgh yl gh dnlvlylvnu vr p OEduqd kdgh sdaqhudv  
Dnlvlylvnuqd ydu sdaqhudgh phg xvjŽaj vsxqnw l dnv iuzq vp Žedqvshgd rjln vlw  
jlp qdMhxqghuylvqlaj 1 SŽ iaeplggdj hq xqghuoevln yl oximydvlvnhq jhqr p dw val  
vqesuryhu iuzq fdp svxhw qOEplae rfk xqghuoead kxu p |fnhwaxivexuqd sdvlnadu gh  
lqqrkoad L nolvhq xqghuoevln yl ghwxvr p l kxuxgdqd edqru iuae iqjhu1 SŽ  
hivrup lggdj hq ilfn yl xviced ir unqlaj vlqunvqgh prae0 rfk yOghur qvr ohu gOEyl eadqg  
daqdwj mugh hwr prae l hq jae vxun rfk p Žaogh uhj qeŽ du l vqae +Elq 4,1 Ylgduh  
ehndqvqgh yl rw phg rdnd dnlvlylvnu rp yOghurevhuydv rhu rfk phg hq  
irOEduvnlaj vxssj livi Dae dnlvlylvnu vr p vhwqghv xqghu gdj hq ydu qrjj uqwsdaqhudgh  
rfk iae yhundj daqghvdy ghp qfndghv yOE Ghvi daqv jr wr p vlg dwglvnxvnu dnlvlylvnuqd  
rfk ixqghud kxu dnlvlylvnuqd nxqgh dvyOEgdv sŽ rdnd wqglhu sŽ hwoOE qhvshunvudqgh  
vOEi ± yhuaj ydu vnr dvhq iudp j Žaj rfk iae p lq hj hq ghoylondj val nd dnd OEduh vr p  
dnlvlyvgharj l vnr dvt

Elq 41 Yl p Žaogh uhj qeŽ du rfk vnlfnqgh kOEqlaj du vlwaxj gr p duqd sŽ ndp dnlvlylvnuh  
+Ulvdaqh 4816534<, 1

WXVWX OVXvmlp xnvhdaqh rd wlp lqqdaqh xnr qdr sslp lqhq

# %SLOYLOSHUNDQWDL% Sloylo rd vOEdlkhlgq slwvw oenhqwd 2udwudwd ydukdlvndydwvlnOEvdh1

Mxd dMqvwqhq

Qxr ulp p dlvhq ndqwd dndvnhqd v vnxwd yOEvdh1/ xvlgq oxr qvuhvlgq ) xnr lxrng dndqd1 Hvr shvlnOEhw rd khlvEydqkhp p dv yr lydw vrxkwd ydnd ndnhq | kghq ddp xsOEvdh1q dndqd1

Ydukdlvndydwvwxqqlvnp dq r ssp lvhq dchlwd ykylp p lq rydwhvOE%vnlq rd vlp lq | p sOEvdh1% %ldydw/ dlnxq rd nhklvq%vnhOE%vnp dvxq p r qhwp xr gr v\ kghwOE vrxkvwvd vnl %B lqOErd p hlgOE | kvlvop p h%r q dtd p xndq/ HlnOElnhOEvdh1 r dn nr nr qddq xqr kghw1

Odvvdvhw r vdp lvhw kdunlvwdq yOElvOElnq dndvnxq rd r ssp lvhq vdw rd/ vnhOE p r qlxnvvd1

Odvhwrdndqwydwsihqj kp llq dnxlvhq oxnp OEvdh1 p xndq -hmp 1: vdw2dnlxlgq,/ nr xlnOEhwvwr uxvqhydwOEhv ndnlwd vnkOEvdh1qOEhw1 Udvnd r q hqhp p OE nxlq vj kp lOE qOE nxndq hl vlyr vdydw mnxg r gr wd ddp/ yddq vj kp OE yr l nOEgOE vrwvdwd dwd vdwrd vlvOE xnd/ nxq vdd hghvlgq vnkj nm1 Nxvhlq vdw rd r p d vj p er d rd vrvxwd sdndwd nr vdw vdp dwp p er dv%vdp lqdv%vdlv1 R vdwq dtd vhd ydq/ p lv vdw r vddq p hq wd/ qlq ndnl vlvOEvdh1 r dnydq ydvwxqd1

Vduylnnhw= UdvlnkOEvdh1 v lqv lqv/ vdw vj p er dv nr ul %vdydv lv% Vxul vmsxunlv/ OEvdh1 v OEvdh1 nxxp dlyhvOEvdh1 r vsxw wd/ klxvchndsxw/ vlxknhsxw rd mlwd vlvhqnddq yOEvdh1 p xndvhwOEvdh1vhw vOEvdh1gxwd p xxwydvdydw vj lqv lqvrd ydv nxyld hvdvwd slvlyvOEvdh1 lqv lqvnxwydvOEvdh1 hnhvOEvdh1OEvdh1 dnxvdxw rd ncvhv OEvdh1 vlv vdyddq ) lq dq vdvndvxd ydvlgq1

Udvw=SLOYL

Nxlqnd slghwp xr gr vxydw

VlvOEvdh1qhv/ mlghq dycv vj kp OEvdh1 ydp lvwd r p dq slghq vmsxunlv d1 -vkvOEvdh1 q nhklvwd rd nOEvdh1 w dqlhlg Mqql Ydvldqhq vlghsdnlvwdq ydukdlvndydwvlnOEvdh1 sdvwd1

Hqvlq sxunllq vlvwdq OE p lqvOE yhvOE Vlvhq vlgq vlxkndvwdq klxvchndd nxydvwd ddp slhqkxndvd/ mlv lq dwd r q1 Sxunlg ndqvl sOEvdh1 rd ndqghv OEvdh1 rd nxydvwd ddp nr unhp slhq lq dhur vlgq yllvOE sOEvdh1 dtd1 Vdvnr rd kvdydvrd/ p lvOE sxunlv vdvkwx1P lvOEvdh1/ nxq ndqvl qr vlvwdq sr lvB

VX VVX OVX vmlp xnvhdqhq rd w lp lqgdvqhq xnr qdr ssp lqhq

Udvi=HUCDLVHMSLOYHW

P lqnCdlMd hucdlMd slg|CEyr l r cdl r dnp dwdBP lqnCdlMd slg|CE dnhw qCEqhmBQCdEwlnocq| w  
slg|CB Rydnr slg|hwycEomCB +Yr lnr qllvCE|ogCB Yr lnr qllghq sCECEwxcB Vxvnlndd  
hucdlMd nxyld slg|wCE Lvh wx vliq r p lwd lqwfj up Onxylwzql q163 hucdlMd slg|Inxydd1  
R dnhw qCEqhmwxylhq slg|CEVdndwlnndd + dng vlyxwrcd wx vlnwcd, nxydd/ r vdlvlnr  
vlnlwd nxyld slg|hw nr unxvrcEhw/nvnhqB P lnCE r q vlxq dnp slslyhMB Vcdvlnr  
p xr gr vlnwcd q kp CECEq slg|hq2vdghslg|hq2xp lklxvcdhqb

Udvi=S, LY, QV, ,

P lqnCdlqhq vCEvCE r qB Udvlwd r q ndqvr/ mwd d p lqr lwxrd vCEB khvld nxyld1 VhnCE  
shdqvnlvCEvCE p er dhw/ hwCEyCEp lq dkhvnhq dhwylCE Lvh wx vliq Sdsxqhmq  
nxydsdqnlwd n| p p hq|CEnxyld yxr ghqdmw/ vCEvCE vxqvlw/ yCEhWCE ycdvnlw/ r dsd  
p xndq p xxv d ux r nchq/ nxvq rCEvlnvnuvcd nxs sl ndndr vd Ònr vnd mrvxv sCEyCE  
vCEvCEvcdh nxl mnlq v| oCEvCE n r vld p lhdh1 Nxyldq dycd vCEvCE q hknCEhs r p sl  
nhur d uxqvdwcdvhp p lq/ nhqvh v| qv| slhq|CEvdlqr lvchq1Ods vhwcdydnr r wcd nxyld  
udvlwd r dych ddxwcd2p dcdq r p dq SCEyCE vCEÒ nr r vnhq/ mnd ycd nxyldwcd/ mwd  
q kp CEyr lwd yhuwcd w lwhqvd %CEEdur r%rd hknCEvkvCEyr lgcdq w lwd xvhd  
nhur lwd/ mnd lq p xr gr wx gvd d hmlsCEylhq vCEvCE

Udvi=LCPDMRVD KHQJ LY PPH

NCEvCEslvCEvqh r d nhvnlv/nCEkhvnhv dwp d q l p dd | p sCEvCEq1 Yr lnr vWCE  
kdwcd/ p dwd w vxqvcB QCE| | ncel d B P lndvld CE|CEnxxdwn 0 p lndvld CE|CE d  
nxvlnvnhB Yr lgcdq p | oE axhd ndsdb nlrdw %Qlp exv Slghqxp sxw% hlp hnlv  
onx/ mwd Qlp exv ylvwCE| qv| p CECE|CE1

Udvlwd ydvdwcd p xxv d p dnx0vd lwxp ddxw/ ydvlqnlq n| p CEvCE p CECEvhdCE

Udvi=VDMVHQNDUL

Wlvrlvx vlnhqndulw rd vkvCECEydp lwd r p d vlnhqndul1 Ocp lqr lwx ycd 0 vd  
sllur vxyd vlnhqndulw/ mwd vlnhqndulq yCEw r lndvd rCEvlnvhwCE Ullsdxq  
yxr ghqdmw rd sdndw/ vCE CEyr lgcdq w lwxwcd hlp hnlv axr qqr qp dvlvcdhvlw/ nxlq  
udvl h| yCEvqhCEvd h| p dvlvcdhvlw/ hlp 1 sxqdlqhq udvl nCE lWCE nhvdlqhq nshlvCE  
ylkvCEvkgvCE vlgqlq nlylvCEvqh1 Yr lgcdq p | oE p dcdvld vlnhqndulhw ylvCEvCEvd  
sllvCE dglxvcd1 Vxlknxsxw lwd yr l r cdl ycd llq yCEvxnvw mld vlnhqndulq yr l  
vxlknxwcd rCEvnl v| xp hnd v| ycdhnd ndndr ch1  
Vlnhqndulw r q dnp d vnr p xnlw rd vxlwcd1 U| kp CE r p dnd vlnhqndulw yr lvdvlq  
dqvd mnlq qlp l vd | dnyCE|hw/ mvd v| yr lvd rhd1

WX WAX OVX vnlp xnvhdqhq rd w lp lqqdæqhq xnr qdr sslp lqhq

# \ kwhlwj os ur rhnw vOEE kdydlqqr lqqlwð

Nðw/Lp p hðY OEvnOErd Vdu Wðsr rOEyl

## WDYRLWVHHW

OðrdOEalvhwðyr lwhhw

O4>Vkvnlwðq oxr qvr vnlrOEghq ylnxvkwð hu sxr dædVxr p hðfSdqrvwðq huVjVhvwVj | 0  
vnxukvOxkvnlgq | p p OEjOE lwOE

O7>Rsslædv vxr wæd rd yhuwðth huælvld nduwr rd/ nxyld rd glqj ucp p hrd1

O8> Rsslædv vxr wæd vhwvhwOEvnwOEvd hlvjrvhq nOEwOE k|yOEvhq p r qlsxr dVld  
OEvnOEvnOEj vhwvhnq|OE krhp lð rd vr vððwæd p hglðd r vqðd r slvhnxd1

PðdqVhgr q vðlvvðyr lwhhw

V5/ V / Vj / Vw/ Vw3

VlvOEsdyr lwhhw

§ VjyhaOE vOEj shukvð lðghq | p p OEj wOE kdydlqqr lp dæd r p dq dæxhq vOEj rd  
yhuwðp dæd vOEj xlgq sdnnchxqVhghq kdydlqqr lklq

§ ClvOEj p p OEj wOE p 1 p dædæsdqVhghq ðnnhVwOEjllq ænxlqð nxlq nxyldq vhwvOEj  
dndqð

§ Vðgd r sslædv vjænhqVhnp OEj | kghwOE | ð nxqvalchmng vr vððwæd p hglðd rd  
vhwvhnqr æ j lðd k| æj| qvOEj

## WRWHXWXV

Rsslædv

<1æx nndædvhwvæd vr yhaVhghq  
qxr thp p dw

RssldlqVhhw

P dðqVhhw

Drdqnr kwð

\ p sOE yxr ghq

Rshxvædydw

Wjæwvhwvhwðq u kp OEjOEjOErd | kvnlwv/æsvOEhu  
nr xærhq r sslædghq ndqwd1

WjæyðdVl p lwæp lwæ rd kdydlqqr lqvlð xær qd/  
vhnOEjhwvhnqr æ j lðq nOEwOE

Nhwv

P lwævðdqræhvr qd | nV yllnr rd vxæ vlnq  
dðdð vr lqvlq w lqhq yllnr -5{ 5k,

Kxr p lrvæyðd

DnVylvhwv ydVl | kvnlwv/æsvOEj xlgq nr xærhq  
ndqwd/ nr vnd vðyr lwhhwq r q

p lwæv OEjOErd r wæd vOEjxylð vcp dðq dndq hu  
sxr dæd Vxr p hðfHqghq ydVlqðwð

p lwævæhvr d | kvnlwv/æsvOEj xærhq ndqwd vxðh  
vr slðnOEjOEjæj OEjvhwOE

VXVWX OVXvnlp xnvhwðghq rd w lp lqgdæghq xær qdr sslp lghq

# DNWLY LWHHWL

Rkrthw

Hwl lw hwm nr q h val qh oEnr ohj dd/ mnd dx ydwhu sxr dcd Vxr p hd1R wd khklq | kvh| wCE  
hmp 1vr vlddvhq p hgdq dyx d1Nd nr ohj r lch vCE dyd qvr sCEy CE lnd rd vr yl r krthw xv -p loCE  
yllnr dcd vxwlp xv vnkGCE/ p lklq dnddq p lwvxnvwvxr ulvwdq, 1

Ydu lqd qhq vnkGCE vr nr r wxw nckghwd  
r vdw=

Vdu lnnhhw

RVD 4 V, , KDYDLQQRW

+CE/vCE | kvh/vhq H{f h0  
vaxn nr r q2l r up vGr krdd/ r shwrd or  
vaxn r q rd rdnd | kvh/vy oer xolch1 Clqniw  
nr slr lvyddq vaxn nr r q rd o p dnhhv/hq  
vhnCE hmp hunnl vaxn wd v oekrlghq  
rd hq -vaxn nr 511K XRP \$vaxn wd  
hmp hunnlqCE p dcdqvdq rd vlvwdq  
vaxn nr / vhp | oer nh0sh vdp dcd vhwaxn nr sr krdd

NCE kdylqqr lvydlp losvrd p lwvwydw hxn CE hq CE r sslalghq ndqwd1 Vr yl nhwCE  
r sslalwd p lwvdywrd n lrdydw kdylqqr vaxn nr r q p lqCE q yllnr qsCEy CE  
NCE CE CE | kvh/vy oer xoxrhq vldqqw rd r wchdd mnd sCEy CE vobhq hmp 1  
vdr p dckv/hq vCEyxwvd nxychdc sdxv qhvwCE n lwd qCE | vj n o qlhq vldqqv

Kdylqqr lvydlp losvrd yd#

§CE soslal

§slq/v | ghq shlwr +327/ 427/ 527/ 627/ 727,

§vdgh +hl vdghwd2xp lvdgh2 uCEvCEdgh2yhvlvdgh,

§vdghp CECEp p yhwCEf p oqvad,

§xp hq v| y| | v -f p ,

§lq dqsdlqh +kSd2p E,

§vxdq yr lp dhnxxv -v| ql2 khlnnr vxd2 nr kvdall qhq vxd2 qdydnd vxd2 nr yd  
vxd2p | un| 2 klup xp | un| , 1

-vxdq yr lp dhnxxv ylhvlhvCE/vaxn nr wd 41



HMp hunlwCEdydlqwr sCEyCElumlvd=

Wdxonnr 51 HMp hunnl vCEdydlqwr sCEyCElumlvd +P D rd WL,1 Wxodq yr lp dhnxxwd  
lφ r lwdydc vr αq - Qp hunnl yllwd vxxdwl nnr r q +Wdxonnr 41

VCEdydlqwr wdxonnr vCEnoevhqCE  
Kxr p \$Nr slr l r p ddq nCEwceq\$

OH{f hq xr gr wd=kws-22xuj1124r GX

Ol r up vOndydnrhqd=kws-22elvd 25p HeF43

WXVWX OVXvmlp xnvhdqhq rd w lp lqqdδqhq xonr qdr sslp lqhq

N, \ W QO: Q VRVHXVX=SRKGLQDD RQQLWXPLVHWD

WkVCEwvxvmlq | kvvw/cvCEnr p hq nr xax ndqwd1 Nr xax vrdwlydw K hoiqj lwCE Xxghwchxqxqj lwd rd P lhnlnCECE

W vxvnxvhd ndqqdwd vCEGCElkhq/ hwCE lwxnvhwskvlydwxxqqldhq vdp ddr yxr ur ndxghq dnddq rd p lwxvhw yCECE vl qr lq 57 k1R sslwxqqlwrx ydwxlvhqnlq kddwlvrd rd v p lwxnvwlvkvlq ddr xov/ r vd lwsCECE p ldp lwxvwx nvd rd vl k| yCE yhuavd p | cv hlp 1Lp dlvhwq dvwvhwq p hqqhvlq kdvdqwrklq -dqrnl= kwsv-22l p dlvhwqdv v12kdvdqwrhw qdov& \$, 1Lp dlvhwq dvwvhwq gdvd p dkgr dwdvd p | cv CE vxudqddq l p dq | kvvw/cv xaxrd1

Kdydqvylnr q rcehwq

P xndqd r oihq nr xaxhwq r shwvhw rhwlvq vdwvwxr lnxv l r up voh| vhp q vcv nvlq rd nxydv dydwydsdv ndvr wv lwd lqwaj vdp OvdCE

Ylnr q sCEw/cvE sslv vdwvhw kvdydv rd rd ndvr ydv | kvvw hCEdxwvvd r dnyld nxyld1

CE ssv lwd rd l p dqsdqhw vl siluhwlvq ylydgldj vdp p lvr mlvd dddv r lwlq1 Dqdd | vlv vxr vlvwlvq | nvlq vl slhqwCEj kp lwCE HvdwCEvxvlp xvdsr uuld hl vcv nvlvd hkgvw/ nlvddp ddr 1VCECE ndqqdwvlnq ydvd vxqqlvvwxv hqhp p CE dndd1

Vlnqr σ j ldq vxr p d k| osv

VENvhw vr yvxnvh p dkgr dvwlydw vcv wlvq vdp dddndvhq nlvddp lvhq rd kdvdqwrhw vdwvnddp lvhq nr cv hvd hl nr xaxwd1

Vr yvchwlvq nCEvce r v khssr d rd rsslvd r d ydv lqqr vxqhlvd nxyddp ddr rd nr p p hqw l p ddr p lwxvwx nvd1

VXVWX OVXvmlp xnvhwlvq rd w lp lqddwlvq xov qdr sslp lqhq



# Lop dqqddgxq rd OOEI lwdvr q vxwlp lqhq r p dwd OOEI p s OEI wævOE

Hdqd Sxr æhndDDJhnd rd Vdqqd Mxsslæ

## Wdyr lwhhw

Lop dqqddgxq rd p hoxq vxwlp lqhq r p dwd OEI p s OEI wævOE

Vfævr sll vhxudbyllq r shwxwxxqqlwop dq nr kwllq=| p s OEI wævOE ssl yxr vlæx ndw6191 Wk/ W49  
rd W4: vhnOE/7 1

P dqqvhwvr yxr vlæx ndw: 1<1W5/ W8/ W/ W/ Wk/ W43 vhnOE/6/ V7 rd V8

I | vlndyxr vlæx ndw: 1<1W4/ W8/ W9/ W/ Wk/ W43 rd W48 vhnOE/vOEwV4/ V5 rd V81

Oxnlr q p dqqvhwvrh q nxuwlvw H4 P ddp dp xxvr nvhwrd rd J H5 Vqlqh q sæbhwrd

## Wf whx vx v

Dnlylvhwvr sll dæhr xxxq/ | OEI xxxq rd ænlr r q1Vfædlwv| | p s OEI wævOE slq/ p dqqvhwvr q/  
elr s j lq rd i | vlndq vdyr lwhhwlvq rd vlwOEklq1 Dnlylvhwvr yr l vlvxwrd | p s OEI yxr ghq/  
p xwrd lkdqvlhwrd vl r q æp hq dnddq vhnOE OE s dndvs OY OE v l OE v OE d yd nxwrd  
lop dqqvhwvrh q uxqvkvhwvrh q1 VfævOE hvlwvvr nr hnd r q qlq fklw hwOE ndnlwd  
vOEæ vxkvhwrd qEvlhwvrh q hl yOE v OE OE hkgi lop dqqvhwvrh q vlvxwrd1 Dnlylvhwvr r q  
vxwqvlwæv qlq/ hwOE hq hkvll vlvxwrd ndkghq shOE OE hq r sslvxqqlq -5( 78 p lq, dndqd1  
Mlv ænrv OEI vlvhwvrh q r q p dkr æwrd yr l lop dqqvhwvrh q vxwlp xvæMr lqh q dqvæd r æd  
slghp s OEI ænrv qd1 QOEI klxndvd hkvll nllqqlwv OE hq p OE rd hu vlvhwvrh q yhvææ r q  
khsr p sdd1

Dnlylvhwvr OEI q r shxvp hqhwvr l wOE n OE v OE u kp OE vdl sduvææ ænrv qd r sslp lqh q/  
glj lwdgr w vxwlyd r sslp lqh q/ j hr p hglævlwvrh q kurdæqxwæp lqh q/ ælnxp lqh q  
OEI ær qqr wd/ vxwlp vxwævhwvr hvlwOE lqh q vxævhwvr vdl nlvævhwvr1 Dnlylvhwvr yr l  
ydvævhq r vdv/ mnd r p dæhr shxvvl kp OEI vvr sll vlvhwvr OEI yr l rhdæd r shxvvl kp OEI vlvOE  
hu vj kp lqh q vlvOEI r shxvææ sduææv ndvr p dævææ

WVWVX OVXVWVlp xnvhwævhwvrh q rd w lp lqqævhwvrh q ænrv qdr sslp lqh q

# Dn wylwhhw

Vkvnlvdcq l p d q a b x d n C E W O P C E E n r q v n l p x r y l d r d s l h q l C E s c h d w h u d M r l w d l V c p d a d  
v r u l v w d c q d l n h q q h a v n h q v d r d p l v w d c q p h o x d - w / c e 4 , , C E l v a r q p l w d c p l w d y d u l n q  
y r l g d d q a g d v d n C E q | n n C E E g h v e h a p l w d l O r y h a x v h m p 1 V r x q q P h u n l V C E e v x k v n l g h q  
v d a h w d r v n w d c q x p l q C E / n - w / c e 5 , 1 N r h d v n l p d w d y d v w d c q n d h v l p l w a x v d h p d d = | n v  
y l a n d d w d l n h q q a g | q v l h q C E h v | g h w C E r d w l q h q n d x h p s d d d l n h q v n h w C E y d k w h k v l v h w l  
y r l g d d q r v r l w d m n d v h a h r s s l a v j k p C E n h u l p l w a x v s l w n / m l g h q v x a n v d y h u d a d c q 1  
Q l l a C E x r u l v w d c q p l w a x v / m a n d v x a n v d v x v n l v d c q n r x o x w d l

O l w n h q C E r k r n l g h q r a n h q v x v n l p x v a p d h r / m v d y r l n C E W C E e s x q d v h w r n q n h u C E E l v h w C E  
v n n C E x a v h q v a n d v h a x w d l

W / c e 4 1 l p d q a d g x q v x v n l p l q h q r d p h o x q p l w d c p l q h q

41 U d d n r q v n l p x r y l q n h v n h a h 4 f p { 4 f p d a x h  
r k x v n C E n l v a C E x w l a d l

51 S r l w d n r q v n l p x r y l q v a x w a s d s h u 1 V d l v d  
n r q v n l p x r y l s d a d u x q d v a h q l l a / h w C E l p d s x r d  
r a e e s C e q r d q h a e q C E | p x r y l q n h v n h a e , C E  
n r v n h d l p d s x r d h q \$ - l p d w d r d y d w k l x n n d v h w  
r a e e C e p l w a x v d h p d a d d l p d a d n l l q q l 1

61 O l p d d n r q v n l p x r y l s c h d w h u d d q s r k r a b b / q l l q  
h w C E l p d s l q v d v a h | a e s C e q 1 C a v d n d q v l n l l q q l 1

71 P h u l w h s c h d w h u d d q p d a d u q v n l s l a C E n | q C E C e l p h m r d p l w a x v s d n n d 1

81 P h q h p l w a x v s d n n d M 1 D y d d n | v h v h q s d n d q u d m d r d s l g C E v C E d a h d v r w d d x n l 4 8  
p l q x x w d l Y r l w d v h w d u d d q p d a d c q v d v r s l y d a h d a x w d a h 1

91 V x r u d v r g r v a h w d l d l n h q q h a v n h q v d 1 R w d d n d n h a e a d r d a v n h y l l g h q p l q x x v l q d a d  
n d n n l r k l n x a h y d w p r r w u d a n q h x y r v l

: 1 P l w d g h v e h a p l w d u a d v d n C e q | n C E e s d n d q C E l h q y r l p d n x x v 1 N l u d d v x a v l

; 1 C a v d n d q v l n l l q q l r d v x r u d m d n r x a a h 1

< C a v n h n r q v n l p x r y l a h s l l u C E C E q h a e e q r a e e h g h q k l x n n d w n q p C E E C E  
w h u h r p l n u r v n r r s l q d y x a h 1 N l u d d v x a v l

V d u y l n n h h w =  
n d a q h a q h q u d m d - 4 m n d w d l  
p l w a x v s d n n d n r k g h q , /  
n r q v n l p x r y l - q r l q 9 { 6  
f p 2 u k p C E  
p d a d u q v n l s s l /  
y h g h a n h w C E x w l /  
y l l y r v l a /  
n C e q | n n C E n h a e d a d r w r d y d u l n q /  
a p d h r d n | q C E  
w h u h r p l n u r v n r r s s l 2 0 n r r s s h a d 1





# Yllnrr p hwr ur σ j lqd

Mqqd Nl wwp

## Wdyr lwhhw

0 vnkgeiwh vceydyqr rd slwcehwrlvhw rd | p p cecekydyqrthq rd plwtdwlghq  
 p hnlvrv ceqaxwlnghq vnhp lvhwce-07/ 08, / + \ V6,  
 Okdumlvad vnhp ceq lwh kckp r vnp ld vceqaxwlnwld -04,  
 Oyhudv r p ld kodydyqr rd lq dlvhnhq alvrvnhq vcehnp lhq kodydyqr lklq/ vceqaxwlnvlq rd  
 vhwrlklq Vxr p hq vceadkvwalvnhcep dhkce i | vlndwld + \ V48/ J H V6/ 07/ 08,

## Wf whx wx v

0 dhwylvnhq yr l vrvxwld | ce r xoxwld hmp 1p ddyvnhq rd i | vlndq vxqqlwld | kvce nnd qllq/  
 hwc dhwylvnhw vrvxwld p ddyvnhq q vxqqlwld rd vnr udq lwdwlnwld rd lq dhkce  
 i | vlndwld ncege ce i | vlndq vxqqlwld  
 0 dhwylvnhw yr lqddq vrvxwld p lwcenr kvad oxnyxr wld vdkdvd/ rd vha ddxwld yr l  
 ydkgwad d vrvnhq vdyvldq | nv p ddyvnhq q rd | nv i | vlndq r sslvqxw/ mnd rcehnhq  
 vceydyqr rd yr l vnkge nxxndxghq vld ndkghq yllnr q dnd p ddyvnhq q r sslvqxwlnh  
 dxwld/ kvnhqyhr q vnhp lvnhq dhwylvnhq σ sxwld vdyvldq | nv r sslvqxw  
 0 dhwylvnhw vlvceglj lvdvnhq r slvnhad/ | nvlq0 rd v kp cevnhq ce vnhce xnr qd  
 r sslp lwdl vlvceglj r nceglj | vce lvnhq vld dylr lqqlq dxqdd

Pdmladd rd yceqhw

0 hmp 1Qhwp r Z hdkhuwdr q/ Udvsehu/ Sklq Vhqv K DW  
 0 hqr up r gxx0 lq ddsdqhghq rd vkvnhq vnhq nr vlxghq p lwdvnhq  
 p | ce mlwchq vj nhp lwdwlnwld vsv uvlhce lwd r q p lwdwlv  
 0 ce sop lwdl/ vxdp lwdl/ vhw nr qhw

## Dn wylwhhw

0 ylvwce nkvce nvlq - lq dlvhnhq alvrvnhq vlyxw 0r krnr ssladon dlwlvce  
 0 vj kp ce nkvce r krnr ssladon dlwlvce  
 0 vceydyqr wvxnr q vxxqqlwlvx  
 0 vceydyqrthq nhce lqhq rd nludp lqhq vnhce ceqaxwlnh vnr nhudq yllnr wd/ r p dq  
 vceqaxwlnh dylr lqv/ nhudq yllnr wd  
 0 | kvnhqyhw kodydyqr lwd

0 lwhqce krnhw ssladon r p dwnkvce/ vj kp ce nkvce/ slqvlv | ghq dylr lqv/ vxxdq  
 qr shxghq rd vxxqddq dylr lqv/ vxxdq yr lp dhnxxghq p cebwce lqhq

WX WXX OVX vmlp xnvhdqghq rd w lp lqddqghq xnr qdr sslp lqhq

4, ydwh mnlq p lhdnllqwlqhq sCEyCEllp h yxr vld\$

Vh yr l r ad hlp 1 mnlq vxr vlnlnmxxnxhml yr lwr sCECE vxr vlnln ad ad ml vj qvyp CECECE r p d vj qvyp CECECE 1

Sl wjw Lp dMhnhq adwrvnhq vlyxlod [+kwsv=22lq dMhnhq adwrv12kdylqwr rhq ad v&\\$.](#) vnylwCE CE/ p l ad lqhq vCE d vCE CECE

Odwd v hgr wLp dMhnhq adwrvnhq vlyxlod=yxr ur ndxvlkdylqqr wydwhrp d ad ml sCECECE ad kdxcp d ad ml p lwaxvdlhp d ad ml ad vhp l ad ml

QvCECECE sllwCE hwl 2 r v d nxyd/ mnd vr sll vj qvyp CECECE vCECE qghp llq1

VX VVX OVX vnlp xnvhdqhq rd w lp lqqd ad qhq x onr qdr s slp lqhq

5, p l ad lqhq vCE d/ nxq vlq ad r d hgh ad lqhq vj qvyp CECECE B

Odwd v hgr w Lp dMhnhq adwrvnhq vlyxlod khvnh ad vkdylqqr w kdxcp d ad ml p lwaxvdlhp d ad ml

QvCECECE sllwCE v h v axnrv adwrvnhqwr k rhp d ad ml glq up p l | kghwCECE v h d p d w d vxxuhw d + kghq yxr ur noxghq d ad ml v xqqlq yCE l q.

6, p l vCE kdylqqr l ad vlnr l v w d q BR slvnh d=qhxyr rd kdylqqr vxxuhvlq

[+kwsv=22lq dMhnhq adwrv12qhxyr rd kdylqqr vxxuhvlq,](#)

D, vxxqqlvndd uj kp ~~CE~~αxnr / mkr q nhd ~~CE~~h kdydqqr wnxghwd vxxuhwd  
-khwndkdqdqr lwd, kdydqqr lqvwqqld Or shwrd valnwdd vaxnr q hqhq  
hqvp p ~~CE~~qld

E, 41vqv=~~CE~~dydqqr wj kp lwd ~~CE~~r xox slkd ~~CE~~1Yhwdndd uj kp ~~CE~~ kdydqr rd vhd  
Lp dMhnhq ~~CE~~ wv nhq sdnd ~~CE~~ vhw lklq hw ~~CE~~Hxur r sdq ~~CE~~duwdd  
-kwsv=22p dMhnhq ~~CE~~ v12hxur r sdq ~~CE~~duwdd, rd vnk ~~CE~~ ~~CE~~qvxw vln s ~~CE~~ / ~~CE~~ / nxq  
r q vhxudd r sslwqv -nlurdndd shuxwvxw1Vkn ~~CE~~ / hxuddkdydqqr wrd nlurdndd qh=

41slqlyhq p ~~CE~~ ~~CE~~ ~~CE~~hq dylr lqv; 2; dwnlr ~~CE~~

51lq dqsdqhq p lwdv -hmp 1Qhwdp r Z hdkhu wdlr q/ Udsehuj Siklq Vhqv  
KDW0/hqvr up r gxxd,

61vkvnhvnhq nr vnxghq p lwdv -f qqlwvx hghd ~~CE~~ hmp hunh ~~CE~~ | ~~CE~~  
mlwchq vj nhp lwdhwd val vsr uwlh ~~CE~~ lwd r q p lwdly

71~~CE~~ soslq p lwdv

81vxdh vxxqqd p lwdv val dylr lqv

91vxdh yr lp dnxghq p lwdv val dylr lqv

Mv mvnhq vxxuhwd hl yr lgd p lwd lwh/ vq yr l valnwdd ~~CE~~ p ~~CE~~ p lwdv dhp dq  
vhr lwd Lp dMhnhq ~~CE~~ wv nhq vlyxld

F, 51vqv=~~CE~~hwdq uj kp ~~CE~~ r p dd ~~CE~~qvxw vhd vq khvlvhd sdnd ~~CE~~ vhw lklq vhd  
Hxur r sdq ~~CE~~duwdd1Nlurdndd/ r dnr r p d hqvxwvhd r qqlwvxwyd p xxwlnr mnlq  
dld qllq/ hw ~~CE~~ghd vq qqlq shuxwvxw hqvxwvhd hly ~~CE~~ ~~CE~~ hvd  
~~CE~~ ~~CE~~ ~~CE~~ hxdndd s ~~CE~~ / ~~CE~~ slwxd yllnr q dndd1

G, yllnr q ~~σ~~ sxwd vnk ~~CE~~ | kvnhqyhw uj kp ~~CE~~ kdydqqr lwd rd hqvxwvhd =

41 glj ud p lqd vx ~~CE~~ nvhwnxxghwd vxxuhwd = ~~CE~~ dndd Lp dMhnhq ~~CE~~ wv nhq vlyxld  
~~CE~~ p ~~CE~~ p lwdv dhp dq vhr wnr ~~CE~~ hvd hghd ~~CE~~ yllnr ~~CE~~ rd d ~~CE~~ ~~CE~~ sxxq r p dw  
kdydqr qqh 0 Rshxvly=~~CE~~ H{f h ~~CE~~ krnylghr valndd dsxd glj ud p lq vlnhp lvhd  
-kwsv=22r shxvly2vwr ~~CE~~ h2 Kxr p \$ydvhp p dwd ydnr wd hul dklhd,

51p k| wcdqhq dylr uj kp ~~CE~~ ~~CE~~qvxw vhd w vnxvp lvhd

61 p k| w nxydv ~~CE~~ d vnk lklq hqlvhd ydnxwdqhlwd vlnrd ~~CE~~ -hmp 1 vj nq qlw  
slw ~~CE~~ ydnxwdqhlw nr unhd dqhlw slqly | ghq val vxxd vnxghq ydnxv  
~~CE~~ soslq, hghd vq nxxndxghq dndd

71 y ~~CE~~ ~~CE~~ ndvl nxydnhd sdxwd ~~CE~~duwdd/ mndd uj kp ~~CE~~ p lhd ~~CE~~ ~~CE~~ ~~CE~~  
kdydqqr rd val hqvxwvhd d ~~CE~~ ~~CE~~ ~~CE~~ ~~CE~~ s ~~CE~~ / ~~CE~~ slwvxghq p xxwlvhw  
yllnr q dndd hmp 1 nxydq dxd

WX WX OVX vnlp xnvhdqhq rd w lp lqddqhq xnr qdr sslp lqhq

VX VVX OVX VVl p xnv h æ q h q r d w l p l q q d æ q h q x æ r q d r s s l p l q h q

Rkrnlw rd d q nhrGE

Vx x d q q r s h x g h q r d v x x q q d q d y l r l q v l =

Vx x d q v x x q q d æ l v æ l n r l v æ d q v x x q v æ d / m v æ l v x x d s x k d æ d 1 V x x d s x k d æ d v l v n j v l v h w æ l  
l æ d q v x x q q d æ l k o y d l v r æ d n r k w l H v n d æ x d s x k d æ d h v n d æ v æ r d æ v l v x x d æ f q h w æ  
æ x q d l v x x d æ x q d æ l æ h 1 L æ d q v x x q q d y r l w æ l n d æ d n r p s æ v l w æ l / J S v æ l v h r w æ l v æ l  
r p d q s x k h æ p h m J r r j æ n P æ s v l w æ l / n x q æ h v y r l w æ l r æ q q l q 1 J r r j æ n P æ s v l w æ l v r æ q q l w æ l  
æ v n y æ f l x k n d r v r l w æ d / p l k l q v x x q v æ d q r æ m n æ æ v l q l v l

M l v v x x d r q k l y l q k h n n r d / v æ l n n d æ n s x l g h q æ v y x n v d / k h l v æ l æ p æ d q m v æ h l q n h y l w æ l æ h m p 1  
æ k v l æ r æ d n æ v r æ q l l g h q æ q v r æ d æ d v æ l s i g æ s l v æ r æ æ æ j æ q s æ æ æ æ æ r l n n x p æ d æ d æ l l q / h w æ l æ q æ æ w  
v n q v æ l s x p l v h q v x x d q p x n æ d q 1

Vx x d v x x g h q d y l r l q v l = [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 v x x d w](#)

S l æ v l | g h q d y l r l q v l = [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 s l æ v l | v](#)

K o y d l q v r v x x u h g h q æ l æ d p l q h q = [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 k o y d l q v r h q æ l æ k v & \\$](#)

Q h x y r r æ k o y d l q v r v x x u h l l q = [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 q h x y r r æ k o y d l q v r v x x u h l l q](#)

H x u r r s æ q v æ æ æ æ æ l æ d = [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 h x u r r s æ q v æ æ æ æ æ l æ d](#)

Q v æ æ æ n h p l w æ l / L æ p æ l v h æ h q æ l v r v =

N x l q n d v æ æ æ q x w l n v l q y l | B [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 v æ æ h q x w l n](#)

v æ æ æ æ æ l v h æ h q x w l n h q æ s x q d [kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 v æ æ p æ æ v æ æ h q x w l n h q æ s x q d](#)

V æ q q h v æ p l w æ l | p æ æ æ æ æ æ æ h g r v æ v

[kws v 22 l æ d æ l v h æ h q æ l v r v 1 2 v æ q q h æ h p l w æ l | p æ æ æ æ æ æ æ h g r v æ v](#)



# Právní úprava ochrany osobních údajů

Právní úprava ochrany osobních údajů

## Příloha

Všechny údaje, které jsou zpracovávány, jsou zpracovávány v souladu s právními předpisy, které stanoví podmínky zpracování osobních údajů. Účelem zpracování osobních údajů je poskytnout vám služby, které jsou vám poskytovány v souladu s právními předpisy. Účelem zpracování osobních údajů je poskytnout vám služby, které jsou vám poskytovány v souladu s právními předpisy.

Důležitá informace: Pokud máte jakýkoli dotaz ohledně zpracování vašich osobních údajů, obraťte se na nás na adrese: [info@firma.cz](mailto:info@firma.cz) nebo na telefonním čísle: +420 222 222 222.

Důležitá informace: Pokud máte jakýkoli dotaz ohledně zpracování vašich osobních údajů, obraťte se na nás na adrese: [info@firma.cz](mailto:info@firma.cz) nebo na telefonním čísle: +420 222 222 222.

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- Informace o zpracování osobních údajů
- Právní základ zpracování osobních údajů
- Účel zpracování osobních údajů
- Kategorie osobních údajů, které zpracováváme
- Jak dlouho uchovávat vaše osobní údaje
- Jak můžete upravit své osobní údaje
- Jak můžete odstranit vaše osobní údaje
- Jak můžete omezit zpracování vašich osobních údajů
- Jak můžete přenést vaše osobní údaje
- Jak můžete zastavit zpracování vašich osobních údajů
- Jak můžete odstranit vaše osobní údaje
- Jak můžete omezit zpracování vašich osobních údajů
- Jak můžete přenést vaše osobní údaje
- Jak můžete zastavit zpracování vašich osobních údajů

Právní úprava ochrany osobních údajů

Dnlylvlnq wōghuicōd qgh p Žoiē xqghuylvqlaj hq l i | v n l j | p qdMhw dEr sōd=

à Nxqqd sōd h d r f k j h q r p i e d h { shulp h q v n o d x q g h u o e q l a j d u l v o p d u e h v n p h g d q g u d l

à E h k d q g o / w o n d r f k s u h v h q v n u d x q g h u o e q l a j v u h x o d w v o p w e h g o p d g h p r f k k h o d x q g h u o e q l a j v s u r f h w h q 1

à Nxqqd w o d x s s / w o n d r f k e h g o p d r o n d p r g h o u r f k d a y C e j d g h p i o e d w e h v n u y d i h q r p h q r f k j o e d i o e x w C E h o h u l

à l o e w Ž k x u q d v x u y h v n q v n d s d j n x q v n d s e l j j v x s s j h q r p h { shulp h q v n o d y h u n v o p k h w r f k p r g h o u v r p w o d x s s p h g k r o s d y u h x o d w d y h { shulp h q v n q - n x u p Ž o i e l \ 4 l | v n h q v r p q d v x u y h v n q v n d s , 1

à Nxqqd sōd h d r f k j h q r p i e d h q n o d q d v x u y h v n q v n d s d j d i o e v o e - n x u p Ž o i e l \ 4 l | v n h q v r p q d v x u y h v n q v n d s , 1

## J h q r p i o e d q g h

Dnlylvlnq unvdu vj vō Žunxuhud : 0 < l ghq j uxqgdōj dāgh xvelōqlaj hq vōp vlvō j | p qdMhw i o e v d Žunxu 1 Dnlylvlnq ndq xvi o e d v C E q h m q v n j u h u d m j h r j u d l r f k i | v n 1 H q g h o d y d n l y l v l n q n d q C e j h q d a y C e j g d v l g h C E u h n o d w u d l l g h q j u x q g d o j d a g h x v e l o q l a j h q 1 G h w d j C e n u v s h f l h o v l g h q v i l h u l a j h q d y p r o e p h g k r o s d y p r o e n r u w r f k p C e j l a j h q d y o i v n p s h u d x u h q r f k u j q p C e j g h q 1

Dnlylvlnq ndq xvi o e d v x q g h y l o n h q v l g s Ž Ž h w v r p k h o w t R e v h u y d m r q h u a d r f k p C e j l a j d u a d j o e v k h o w x s s u h s d g h j Ž a j h u x q g h q Ž u d y h f n r w v l g i o e d w v o p o l l q v l o C e n d j w p h g g o d 1 G h w d j h u w x g h u d q g h 2 h d y h q l q v n w l d w d o y h v n q v n d s n u C e j h u ō j v n l j w d e h v n 1 P C e j l a j d u a d j o e v k h o w w y Ž j Ž a j h u s h u g d / h q j Ž a j s Ž p r u j r q h q r f k h q j Ž a j s Ž h i v n u p l g g d h q / k h o w s Ž v o p p d s o l w r f k v l g s x q n v l o e p C e j l a j d u a d r f k r e v h u y d m r q h u a d n u C e j f d 1 5 3 p l q x v n u s h u j Ž a j 1

Dnlylvlnq ndq j o e d v l a g l y l g x h o w l s o d h o h u l j u x s s 1 P C e j l a j d u a d r f k r e v h u y d m r q h u a d j o e v x w p k x v p h g d q g r n x p h q v m r q h q r f k d a d v h q n u C e j h u v l o j Ž a j v l o g d w u r f k j o e v e C e v l q r p k x v 1 R p v n r o d q l q v n k d u v l o j Ž a j v l o p C e j q w x p h q w n d q x s s j l i v n q C e j h q j o e d v k h o p h g k r o s d y g h q l q i r u p d m r q v r p i l q q v v l o j C e j d j s Ž l q v n u q h v n o e n d u q h g d q 1

P d m u d o r f k x v x v o l a j

41 Y C e j h u w d m r q p h g d o d i x q n v r q h u l q n o x g h u d g h Ō v n { 1 S D V S R U W z l u h o w z h d m k h u v n q r u p h g y l o n h q p d a n d q p C e j y l a g k d w l j k h w r f k Ō n v o l a j / o i w u j f n / i x n v j k h w v n p s h u d x u o x v X Y Ō q g h { 1 D a j h u C e j h q n r r u l q d m u a d + j S V , 1

D o h u a d m y w e

( E d r p h v n Ō i l q q v d w o g g d q h u v r p d s s s Ž v n d i r q h q - v n { 1 E d r p h v n )

D o l p h v n / S k | v f v W r e r { V n q r u V l v n / i x a j h u d l q v n s Ž d o d v p d u w d i r q h u

O x w p k x w n u p r p h v n

O y l a g p C e j h

51 Q h g h u e o e g v p C e j h

61 G d v r u p h g V s d n y x s u r j u d p y d u l i d o p d a d a y C e j h u r y d a q C E q g d y C e j h u w d m r q



VX WAX OVX vnlp xnv hōqhq rd w lp lqgdōqhq xōr qdr ss lp lqhq

daj hv hqđj wp Cēhnyhqvā/ vñ{ p p xqghu 9 vlp p du hōu p p xqghu 57 vlp p du l dō p Cēlaj hq j oēv edul hq j Žāj gđ dj hq1

Ylqgkdwlj khvā= Ylqgkdwlj khvā p Cēv l p 2v r f k p dā dāi hup hghy lqghq +VP KL 534 < i, 1 P hghy lqghq Cē p hghy Cēghw dy y lqghq xqghu 43 p lqxvñul Hq y lqgp Cēh/ hōu dāhp r p hñu eōē hqđj wi oēhñuli vñud sōf hūd s Ž vñr p hñuv koēg oēhu hq v Cēv vñl Laj d wōēdāgh r erñwēv ugh i Ž ilqgdv l q Cēkhvā/ v r p vñ{ 1 kxv hōu yñj h vñr q1 Ghvñl eōē ehñvñv q Cē p Cēōvñq y Cēñ x vñl R vñl sōf hūd p Cēq w x p hq vñw s Ž hq p d vñl Li dōēghvñvñ i lqgv hq p d vñndq y lqgkdwlj khvā p Cēv i ū Ž q f d 15 p hñuv koēg1

daj hv p hg y Cēhuwñf n > vōēhñu v l gy Cēv v l gr wñ qr uñ qr ugy Cēv qr ugr wñ oēvñu hōu y Cēvñul

Uñxōvñq ugr y l v d u w x g h u d ā g h 2 h d n y h q l i r u p d y h q v n l i v d j u d s s r u w p h g i r n x v s Ž k x u y Cēhu r f k p r ā q x y h f n o v x q g h u r e v h u y d m r q h u d v d p w i x q g h u d u s Ž r u d h u d v l o i o e Cē g l a j d u d d 1 K h q r f i o e r f n v Ž k x u p Cē l a j d u d o ē h u q w Cē p h u p h g g h o n d e l y Cē h u s u r j q r v h u d r f k r i i l f l h o d p Cē l a j d u i o e g h w h j q d x q g h u o e q l a j v r p ū Ž g h w x q g h u v d p d v l g v h u r g 1 G h v d j Ž u d w i l q d d s Ž e d d 1 i p 1 1 / k w s v = 2 2 v 1 q d m h v h q d v v 1 1 2 p r ā q 0 r f k q h g h u e r u g v r p u d q h q r f k | u t r 1 P Cē h x o v ñ q i o e v l q l n d n | o s u r j u d p + H { f h o h o u C e u h F d t , h q đ j w p r g h o n q q h g d q + v h h { f h o n d n | o e d g l e d j r u l v o x v n w d y x s s j l i v n q , 1

Hi vñu h w d q v d o r e v h u y d m r q h u v n d w x g h u d ā g h 2 h d n y h q v d p d q w Cē d h q y Cē h u s u r j q r v i o e g h i o e d ā g h n r p p d ā g h 4 5 v l p p d u d j h q r p d w x v a | w d v l q d h j q d p Cē g d v d 1 H i v n u ū v r Cē i o e k h q v l q s u r j q r v p h g k x u y Cē h u w l y h u d j k h v ā e d n y 1 G h q v n l i v d j d u d s s r u l n q v n d l q n x g h u d i o e x v r p y Cē h u s u r j q r v h q h q p r v l y h u l a j p h g vñr u h v n e d n j u x q g g 1 y 1 1 k x u r e v h u y d m r q h u d r f k p Cē g d v d d a y Cē v i o e d w i o e x w s Ž g h w n r p p d ā g h y Cē h u v l J | p q d m w n u v n d o Cē h q i u d w Cē d g l a j u d i o e d w s u h v h q v n u d p Cē h x o v ñ q 1

H{ w d x s s j l i v n u

Lgñwñlñlaj dy p r ā q w s h u = V x g h u d ā g h 2 h d n y h q v n d o x q g h u h q y h f n d v v l g j o e d g d j d p r ā q r e v h u y d m r q h u l G h v d n d j o e d v d a y l a j h q x q g h u v n r o l g h o u x q g h u i u l v g l l o e d w l g h q v l i h u d p r ā q h q n d q h d n y h q d a y Cē g d v l j d y i o e d ā g h Cē f n d u =

- k w s v = 2 2 x u p 1 1 2 4 p f y
- k w s v = 2 2 f o x g d v d v z p r 1 q v 2 k r p h k v p o
- k w s v = 2 2 f o x g d v d v z p r 1 q v 2 f r p s d p r g h o n q h o v z r o p d j h v k v p o
- k w s v = 2 2 f o x g d v d v z p r 1 q v 2 v h d f k 0 p d j h q d o n u 1 k v p o

Doklad o vývoji hospodářské činnosti v roce 2014. V roce 2014 bylo dosaženo významných úspěchů v oblasti hospodářské činnosti. V roce 2014 bylo dosaženo významných úspěchů v oblasti hospodářské činnosti. V roce 2014 bylo dosaženo významných úspěchů v oblasti hospodářské činnosti.

Elő 41 Célkitűzések megvalósulása 2014-ben

Nagyobb figyelmet fordítottunk a gazdasági tevékenységünk fejlesztésére. A gazdasági tevékenységünk fejlesztésére fordítottunk nagyobb figyelmet. A gazdasági tevékenységünk fejlesztésére fordítottunk nagyobb figyelmet.

Véget ért a 41-es célkitűzés megvalósulása

VXWVX OVXVmlp xnvhøqhq rd w lp lqqdøqhq xør qdr sslp lqhq

NÖu

- VP KL/ Vyhuj hv p hvr ur σ j lvnd r f k kl gur σ j lvnd lqwlxwvl Lqir up dvr qhq kQf vdg 63161534<1
- d, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p hvr ur σ j l2kxup dw0qghuer ug04196:
- e, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p hvr ur σ j l2kxup dw0qr gms0415: 5<4
- f, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p hvr ur σ j l2kxup dw0p r ølj kh0418483
- g, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p r ølj kh0 f k0p r øjp dj g0414847
- h, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p hvr ur σ j l2kxup dw0xi wlp shudx0416; 6<
- i, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2p hvr ur σ j l2kxup dw0ylqg0418<57
- j, kwsv=22z z z 1p kl 1h2nxqvndsvedqnhq2kxup dw0xi wlf n04166; 63

Xveløqlaj wlvuhohq 53481J uxqghuqd i øj | p qdMhw 0Er sðq 53481I øhvnulivhur f k dylvqlaj du 53487; 1kws=22z z z 1 sk112gr z qø dg24: 7; 86bj uxqghuqdi r ubj | p qdMhw bður sðqb53481sgi

Xveløqlaj wlvuhohq 53471J uxqghuqd i øj 0Er sðqhq i øj ghq j uxqg0Ej dgh xveløqlaj hq 53471 I øhvnulivhur f k dylvqlaj du5347<91 kwsv=22z z z 1 sk112gr z qø dg2499767bj uxqghuqdi r ubður sðqhqbyhunr nðndvx1sgi

Eløj ru

I øvøj sŽhq h{ f hðehoi øelqi øðqghwly y0Ehur evhuydvr qhuqd +0Ejn qhgðq, kwsv=22xup1124p fz +0Er/ H{ f hðehø1

Eløj d41Hðylqwxnvr q1

Eløj d511P r øqnr w1

Mhvlf d Eur dv r f k Fdp lœd M kdqvr q

Hhylvqvwknlr q

# P r œq O r f k y O g h u r e v h u y d w r q h u l g l q q O E p l œ œ

P Žo

Gx i Žu l qv n h u l k x u d v p r i O E h q v d h w h œ d v l œ w Ź g n d q e h m u y d v p h g k r œ s d y p O œ d d h j h q v n d s h u s œ d œ p h w œ d u v Ź v r p v l œ p s h u d œ u œ i w œ l f n / q h g h u e œ g r f k y l q g w / u n d / p h q r f n v Ź p h g k r œ s d y y l q g u n v œ l q j r f k p r œ w œ n h w x v œ h g q l q j œ p r œ l j k h w l G x j h v p œ d j k h w d w w œ d x s s g l q r e v h u y d w r q v i œ p Ź d r f k d w g r n x p h q v n u d g h y O g h u r n v i œ O g u l q j d u v r p v n h u l v n r œ q v q O E p l œ œ œ y h u v l g 1 G x œ E g l j d w s Ź y l v d r f k i œ œ œ d v œ p e d a g r f k d w t h r q h u d n u l q j r u d h r f k y h u n d q 1 G x i Ž u j u x q g O E j d a g h n x q v n d s h u l k x u y O g h u s u r j q r v h u j œ v l S Ź j | p q d M h q l y Ź i Ž u g x O g h q w œ d g l j d w i œ p w œ d w œ l w l v n l q i r u p d l r q l i r u p d y v œ h œ h u r f k g l d œ p 1

Xw O E g h u l q j

Vh u l i v œ j œ d s s r u w

N œ p œ d v r f k v œ s y x w O E g h u l q j h i v n u l q O E q d g œ d s s r u w

V l g

X s s j l i v n q x v i œ œ g x x q g h u p l q w w h g œ j d u x q g h u q Ź u d y h r n r u w v l g / j O E œ d h q j Ź a j s Ź p r u j r q h q r f k h q j Ź a j s Ź h i v n u p l g g œ j h q / s Ź v œ p d s œ w r f k n œ f n v œ j y d u r h g œ j 1 l œ p O E j l q j d a q d r f k r e v h u y d w r q h u q d e h k œ s h u g x œ E œ d p h g f d 1 5 3 p l q x v n u s h u j Ź a j 1

P d v n u d e =

G x e h k œ s h u k d v œ j Ź a j v l œ i œ œ d a g h p d v n u d e =

- 41 Y O g h u w œ l r q p h g œ œ i x q n v r q h u l q n œ g h u d g h Ò v h 1 S D V S R U W z l u d h w z h œ k h u v h q v u v r p p O E n u y l q g k d w l j k h w r f k œ l n v œ l q j / œ i w œ l f n / i x n v l j k h w v l œ p s h u d œ u œ v X Y O l q g h 1 D a j h u O g h q n r r u g l q d v n u q d œ S V ,

51 Q h g h u e œ g v p O E œ h

61 G œ v r u p h g V s d u n y x h s u r j œ p y d u l i d œ g x d a y O E g h u r y d a q O E œ g d y O g h u w œ l r q 1

L i d œ r y d a q O E œ g d y O g h u w œ l r q l q v i l q q v v œ j O E j d j n d q g x h u O E œ d g h q p h g i œ œ d a g h =

- d, E d r p h v n u Ò i l q q v d w œ g g d q h u v r p œ s s œ n d œ l r q s Ź v n d i r q h q
- + E d r p h v n u ) D œ l p h v n u / S k | v f v W r œ r { V h q v r u V x l v n / i x q j h u d u l q v n s Ź d œ v p d u v n d i r q h u v l y O E u
- e, X w p k x w n u p r p h v n u
- f, Y l q g p O E œ h

W X W X O V X v n l p x n v h œ d q h q r d w l p l q q d œ d q h q x œ r q d r s s l p l q h q

J h q r p i o e d q g h =

à Gx y o e i n u h q s o l w l v n r o d q v q o e p l o o e g C e g x w i o e d o d g l q d r e v h u y d m r q h u r f k p C e j l a j d u x q g h u g h n r p p d a g h y h f n r u q d l Y C e i n h q s o l w v r p l a j h q d a q d q y d o w y d g j C e i n u o s s h a k k h w r f k k o e g 1

à Gx i o e l q g l q d p C e i n h x o d m l q z r w n d o l o s u r j u d p v o e h { h p s h o H { f h o h o h u C e u h F d d 1 R p g x d a y C e j g h u S D V S R U W v h q v r t h u p h g V s d n y x h s u r j u d p h w o j u d v p C e i n h x o d m l q g l j l v o e r t

à R p v n r o d q v o h q d u p C e i q w x p h q w i o e v n p s h u d x u 0 r f k o x i w u l f n v p C e j l a j v o p w i o e y l q g u l n w l q j r f k k o d m j k h w n d q g x d y o e d g h w d g d v d i u z q e d d 1

z z z z l q g l f r p /

k w s v = 2 2 z z z t r u g l f z h o k h u t q h v 2 d l n h q q h t s k s B a y /

k w s v = 2 2 v y 1 q d m h v h q o d w v 1 1 2 r e v h u y d m r q o w d m r q h u

K d y 0 r f k n x w y C e j u = k w s v = 2 2 x u d 1 1 2 4 p f u

Q r u g 0 h x u r s d y C e j u = k w s v = 2 2 x u d 1 1 2 4 p f v

I o e d q g h p C e j l a j d u r f k r e v h u y d m r q h u v n d g x x w i o e d =

à P r o j k h w

à W p s h u d x u

à O x i w u l f n

à Y l q g k d m j k h w

à Y l q g u l n w l q j

à Q h g h u e o e g

Q h g d q i z i g x k r o e s p h g y d g g x v n d e h d v d y l g p C e j l a j d u d r f k r e v h u y d m r q h u q d

P r o j k h w h o h u p r o p C e j g d a j h v l k x u p z a j d z i w r q g h o d y k l p d n q v r p C e v C e n w d y p r o j 1 H q k h v n q e h q C e q v r n v d r f k 3 2 ; d a j h u p r o j i d w r f k ; 2 ; k h o v p x o d m

V n W e h o 4 l Z l n l s h g d i o e v r o n q l a j d y r n v d

+ k w s v = 2 2 y t z l n l s h g l d t u j 2 z l n l 2 P r o p C e j g , 1

W p s h u d x u = l o e d w i z h q v z h q k h w d j d p C e j l a j d u v r p p o e j w p C e i n u g x v n p s h u d x u h q s z h q v z o s h q s o d s o l w v r p p o e j w g C e p d u n h q C e v C e n w p h g j u o e 1 G x j o e p C e j l a j h q s z h q k o e g d y 4 / 8 C o p o s h u p d u n h q 1 W p s h u d x u h q s z h u n d v d y p d u n l w d q v h j h a v n d s h u l H { h p s h o l v y l g v r d j w y C e j u n d q v n p s h u d x u h q o s h u w u v d a g p d u n y a d u k o e p h C e o s h u i x n l j r f k j u o e h y x { h q p d u n l w 1 W p s h u d x u h q s z h u n d v r f n v z d y r p p d u n h q o v d u n d i v j w h o h u r p g h w l q q v k x v h o h u u o e l q o e k h v n q 1 V n l o d g h u q d n d q g h p r q w h u d p h g d w y C e i n r o n d p C e s o l w h u r f k r o e i o e d u h x o d m q 1

O x i w u l f n = R e v h u y d r p o x i w u l f n h w w l j h u h o h u v n x q n h u p h o d q g h y z p C e i n o C e i n q d x q g h u h q r f k v o p p d g d 1



R p d r h u e a g h n r p p h u v r p u h j q C e i g h w e d d d w d y o C e d u j q p C e u h q p h q r p e h k Z o u h q C e i j a g p h g v a e w l l q e h k Z o u h q r f k a z w v a e l v p C e u l q a d q v r d d y o C e l a j h q v n h u l P C e r n k h n q C e p p 1 P C e i o e x w h u r u c h d g h d y y l a q h q C e i g h q w a e w d i h o n C e u c / r f k g h w d n d q p l q l p h u d p h g d w w C e u d p C e u h q q C e d p d u n | v a / p h q g z i l a q v g h w u l n i o e i d w d q g u d r e r i n w k d p a d u l p C e u h q 1 D y w z a g h w i u z a u j q p C e u h q v l o r d n d k l a g h u r f k i o e h p Z o - k x v / w C e p p , e o e y d d p l q w w y Z j Z a j h u r e r i n w k o e a g 1 Q h g h u e o e g v p C e i j g h q d a j h u g x h q d j w p C e u h n y h q v h q / v l o h { h p s h o p p x q g h u v h { v l p p d u h o h u p p x q g h u 5 7 v l p p d u l i d o p C e l a j h q j a e v e d u d h q j Z a j g d d j h q 1

Y l a g k d w j k h n q = Y l a g k d w j k h n q p C e v l p 2 v r f k d a j h v r p p h g h y l a g h q 1 P h g h y l a g h q C e i p h g h y C e i g h w d y l a g h q x q g h u v r p l a x v n u l H q y l a g p C e u h / h o h u d a j h p r p h v n u e o e h q d j w i o e h m u l i v n u q d s o f h u d v s z v l r p h v n u k o e a g o y h u h q v o e l v d l L a j d w a e d a g h r e r i n w e r u g h i l a q d v l q C e k h n q / v r p v h { 1 k x v h o h u y h j h v l r q 1 G h w d e o e g x e h d h v d q C e i g x y C e u h x w p C e s o l w h q 1 R i v d s o f h u d p C e i q w x p h q v n w s Z h q p d w l L i d o g h w l q v n i l a q v h q p d w l n d q y l a g k d w j k h n q p C e u i u z a f d i w y Z p h v n u k o e a g 1

Y l a g u n v a j h q d a j h v p h g y C e h u w h f n > v o e h u v l g y C e v v l g r w l q r u l q r u g y C e v q r u g r w l o e v d j h o h u y C e u d j 1

U h v x o d w

- à G x u h g r y l v d u g l a d u h v x o d w i r u p d y h q u d s s r u w p h g i r n x v s z k x u y C e h u r f k p r a j x y r h f n o l x q g h u r e v h u y d m r q h u d r f k i x q g h u d s Z y d g g h w d n d q e h u r u s Z 1
- à G x r o e i o e d r f n v Z k x u p C e l a j d u d o y h u q w o e p h u p h g y C e h u s u r j q r v h u d i o e g l w x q g h u o e a l a j v r p u z g h x q g h u d p p d v l g 1
- à P C e u h v x o d w l a j i o e g x l n d o l e s u r j u d - H { f h o h o h u C e u h F d o , l h q d j k h w p h g p r g h o h q q h g d q 1

à J Z u g x s Z j | p q d m h w n d g x C e h q i u d p w o e d g l d u d i o e d w s u h v h q v n u d p C e u h v x o d w q 1  
à G x v n d v h g d q r o e i o e d g l d r e v h u y d m r q h u p h g d h w h o d y C e h u s u r j q r v h u v o h { h p s h o i u z a i p l 1 / k w s v = 2 2 v 1 p d m h w h q d l v r v 1 2 p r a 0 f k a j h g h u e r u g v r p u d g h q / | u t q r 1

à H i v n u h w d q v o r e v h u y d m r q h u v n d g x j a e d h q h j h q y C e h u s u r j q r v i o e g h i o e d a g h 4 5 v l p p d a d p h g k r o s d y g l a d h j q d p C e u h v x o d w r f k r e v h u y d m r q h u d d 1 N o e i o e d v h g d q g l q s u r j q r v p h g k x u y C e h u w x y r h f n a g h v l y h u n d j k h n q x q g h u g h q d d v l g 1 V n u l y h q u d s s r u w s Z k x u g x j m u g h g l q y C e h u s u r j q r v l u d s s r u h q v n d l q n a g h u d h q p r v y h u l a j p h g v i r u h w n e d h j u x q g / g y 1 M k x u g x d a y C e i g h g l a d r e v h u y d m r q h u i o e d w i o e x w s Z g h w n r p p d a g h y C e u h v t

WX WX OVX vmlp xnvhøghq rd w lp lqqdøghq xør qdr sslp lqhq

WXWAX OVXWMLP XNVHƏQHQ RDWLP LQGDƏQHQ XƏRQDR SŠLP LQHQ

Hf wd xssj livhu  
Lghqil huj dy prəwshul

à Gx vnd xqghu hq yhf ndv vlg j əed gəj dj d p r əqr evhuydlr qhu1 R evhuydlr qhuqd ndq  
j əedv dqvaj hq xqghuvnr əlg həhuxqghui ulvg11 əədwlg hqvi l hud p r əhq ndq gx  
dayCƏgd glj dy i əədqgh CƏndu

kwsv=22z z z 1p kl1h2nxqvndsvedqnhq2p hvtr ur σ j l2p r əq0qwr gxnlvr q04'6; 85

kwsv=22f σ xgdəvz p r 1qv2kr p h1kvə σ

kwsv=22f σ xgdəvz p r 1qv2f r p scp r ghəqhu0z r 0p dj hvkvə o

kwsv=22f σ xgdəvz p r 1qv2hdv k0p dj hq dəhuj kvə o

à Dəhuydlywndq gx dayCƏgd glj dy əp lqhudgh eləgnr uwsŽp r əvlyshuvr p əədhq j hu  
glj 1

à Gr nxp hqvnd glqd p r əl eləq +ir w j ud hud, r fk vəp əeləghud l hwr fk vəp p d  
gr nxp hqwŽndq gx l hi vnukdəg nr qwr əhud glqd r evhuydlr qhur fk əə eCƏw sŽ  
dwlg hqvi l hud p r ə1J əə lqvndwəvtr nqd gəvxp r fk nσ fnvəj i əə glqd eləghul

à Gx ehkəghu hqgdwədj hi əədqgh p r əvCƏv hq=f l u x v / flur wəv x v / flur f x p xəv /  
dər wəv x v / dər f x p xəv / f x p xəv / f x p xə q l p exv / q l p er wəv x v r f k wəv x v i əə  
gh p r əq gx r evhuyhudul

à l xqghud xwsŽylənhwCƏv gx ndq i ŽnCƏq hgr p r p dwp r vi CƏhv wəv Žq j hqr p dw  
wəv ghud p r ə1

Ndq p d q dayCƏgd əi wəv fnhw əədwədj h kəgh q əhukəv h B

Gx vnd xssvndwəv kxukəp wəv h u kəv hw n r σ p u Žghwəj j huj hqr p dwp CƏv əi wəv fnhwsŽ  
vnr φ Žghq r f k r əp i əə ghmp hg ghwəv wəv fnhwr p u Žghu xwəv Žylg kəv h wəv CƏv glj 1 Ghwəv  
yCƏgh j Židwəv CƏv i u Žq z z z 1p l11 Oxi wəv fnhw xəqnhup hg kəgh q r f k hq wəv thj h o CƏdw  
əi wəv fnhwəv wəp hg xəj hi CƏ4 k S d i əə ydu Žwəv qgh p h v n u l wəv qgdugy CƏgh w i əə əi wəv fnhw  
ylg kəv v l v qly Ž CƏ4346/58 k S d 1

NCƏ u=

z z z 1 l q l f r p

z z z 1 q r u j f z h d k h u b q h v 2 d l n h q q h t s k s B y /

kwsv=22v1p d l h v h q ə l v r v l 1 2 r evhuydlr q0wəv r qhu

kws=22z z z 1p kl1h2ydguh2kdy0 f k0nxw2kdy0 f k0

nxwydg hu 2t 2V r f nkr φ 259: 6: 63&z v@z svədz ( 53v@z svədz/sur { | @z svə

d/sd up hvnu@ l qg

z z z 1 utr 2ndu2&əv@971-6476) σ q@4896976) } r r p @6) əj d@/l qg) sur n@68:





Vádrf xp xav/ Vf hohuycnp r æ

Qđ d p r æ v r p w j h u h w e a h n w  
l q w f n r f k n d q e l æ d v n l n w v r p  
v æ h u k h æ k l p d h q 1 J h u v æ d q  
q h g h u e æ g 1

kwsv=22z z z 1p kl1h2nxqvndsvedqnhq2  
p hvr ur σ j l2p r æ n æ w i l f h u l q j 0414838

Fxp xσ qlp exv/ Fe hohuel p r æ/  
Žnp r æ

Ej p r æ n d q j h x s s k r y v æ w æ l u n d  
y æ h u h q r p h q 1 R f k i æ h n r p p h u  
y d a d j d h s Ž v r p p d h q æ x q g h u d a g u d  
Ž w l g h u l N d q w æ e n d v j x s s v æ 43 n p  
k æ g 1

kwsv=22z z z 1p kl1h2nxqvndsvedqnhq2  
p hvr ur σ j l2p r æ n æ w i l f h u l q j 0414838

N æ u =

VP KL/ Vyhuj hv p hvr ur σ j l v n d r f k k l g u r σ j l v n d l q w l w x v l q i r u p d m r q h q k æ v æ g  
59191534<

kwsv=22z z z 1p kl1h2nxqvndsvedqnhq2p hvr ur σ j l2p r æ n æ w i l f h u l q j 0414838

kwsv=22f r p p r q v z l n l p h g l d t u j 2z 2l q g h f s k s B x u g @ 5453; 7

kwsv=22z z z 1p kl1h2nxqvndsvedqnhq2 d v r f x p x a v æ r æ t p r æ 041649<6

kwsv=22z k d w k l v f æ x g f r p 2f æ x g 0 f s h v 2 d a w w æ d x v 2

E l æ n æ u =

kwsv=22sl{ ded f r p 2skr w v l q i r u p d m r q h q k æ v æ g 59191534<

f l u x v = k w s v = 2 2 s l { d e d f r p 2 w 2 s k r w v 2 f l u x v æ r æ t æ d F 6 ( D 8 æ d h j u x q g 0 k l p p h æ  
56<649: 2

f l u r w æ d x v = k w s v = 2 2 s l { d e d f r p 2 w 2 s k r w v 2 v n l f l u r w æ d x v 0 y l q g 0 4 7 9 7 3 8 2

f l u r f x p x a v = k w s v = 2 2 s l { d e d f r p 2 w 2 s k r w v 2 f l u r f x p x a v f l u x v æ r æ t æ d  
v r æ t h g j ( F 6 ( D 8 a j 0 5 6 7 7 5 ; 2

d v r f x p x a v = k w s v = 2 2 s l { d e d f r p 2 w 2 s k r w v 2 d v r f x p x a v æ r æ t æ d 0 y ( F 6 ( D 7 g h u 0  
699; 8<42

W X W X O V X v n l p x n v h æ q h q r æ w l p l q q d æ q h q x æ r q d r s s l p l q h q

VX VVX OVX vnlp xnv hðqhq rd w lp lqqdðqhq xør qdr s slp lqhq

f xp xov=kwsv=22sl{ ded f r p 2w2skr wv2i 050 r @0m| 0mugeuxn0kr ðvr qv08668742  
wvðrf xp xov=kwsv=22sl{ ded f r p 2w2skr wv2p r @0wvðrf xp xov0p r @0klp p h0  
836772

kwsv=22f r p p r qvz lnlp hglðt uj 2z ln12lqir up ðlr qhq k0f w0g 59191534<  
ðvr wvðrv=kwsv=22f r p p r qvz lnlp hglðt uj 2z ln12l lð=ðvr wvðrvbxqgxðlv1tsj  
wvðrv=kwsv=22f r p p r qvz lnlp hglðt uj 2z ln12l lð=53470860  
43b3; b7: b77bWvðrvbf ø xgvbdqgbylj ðlqbHør /bQhydgð1Sj  
qlp er wvðrv=kwsv=22yp 'z ln1shglðt uj 2z ln12l lð=qlp er wvðrvbylj ð1Sj  
f xp xov f r qj hwxv=  
kwsv=22f r p p r qvz lnlp hglðt uj 2z ln12l lð=Fxp xovbf r qj hwxvbf ø xg1tsj  
f xp xø qlp exv=kwsv=22f r p p r qvz lnlp hglðt uj 2z ln12l lð=Fxp xø qlp exv1tsj

Fuhðlyh f r p p r qv 00fndu=  
FF E\ 0VD 7B +FF0Wvðrvlrv q0kðh Dðnh 7B Lqvhuqðlr qðp  
kwsv=22f uhðlyh f r p p r qvt uj 2ðf hqvhu2e| 0vð27'82ghhg1hq  
FF E\ 0VD 6B +FF0Wvðrvlrv q0kðh Dðnh 6B Xqsr ulhg,  
kwsv=22f uhðlyh f r p p r qvt uj 2ðf hqvhu2e| 0vð26'82

# Vlhp hqvw dylQp lqhq rd dqqlqudnhqwhlghq dhur g| qdp llnd

Oxud Sdylatqhq

## WDYRLWVHHW

Dnlylvhlq vlyrlvhlq r q vwxvxd ndylhq dVCEVp lvnlqr lklq1 Sdnddq s| vlylqCE  
hdqCEndylhq r q vE/q| wrhklwCEHlv/VCEnlqr rd xxvlhq hqgdxhghq vdyxwv lvhlq1  
Hlp hulnlv nhdv r +Fkhrqxp p dnv, dylwCEVhp hqhqvCExxvln dchlth p xxudklwv  
dylwCEp xxudklvwxvlnv dylwvhp hqhwxxvlnv sdnr lth rd vdydvsdndm vlhp hqhwCEllqql  
r dylq r dylq dylwDrd sur vllqlslv lvhq xø nnhq hð hð r v p lq1

\ dylqhq vlhp hqvw dylQp lvnlqr r q vxd=vdyhqvceusvCEVur vndydwlvhp hqhqvCExp hð  
vxdth dvlvnl rd nCE p hnCEsCEVCEVhp hqhqvCElhr qd soqCEp dylwvq1 Mlghqnlq  
ndylhq dqqlqvlvhw/ Ovdv r rd Ckdvxdv r kr dylw vlhp hqhw vxdq dylw ndxhp p dv  
hp r ndylwv1 Yhm r q p |ø vCEhCEVhp hqCEdylwCEhdp hqwl/ mvd nCEVCEV/ klyCEM  
hlp hulnlv udqvdschnr/ dssCEd nxurhq llnd1

Xvndv vlhp hqhw dylQCEv hCEvq val k|øvvlvq dylwv1 P hkyCEhCEhw khghp CE  
kr xnxvndydwCEp lCE/ øp CE rd vdp dnd khghp CE vlvCE CEvhp hqhw dylQCEv xndvq  
hqvlq hCEp hq uxvdxvcevnvq dylw CE1 Mvnlq ndylw vrv wdydw vdkp dvlv val yCECECE  
vdxvylv vlhp hqCEmvd p dnvwvdydwCEp hq udnlv dval vxnlv dslvvlCEp p dnr rd1

ShnCE qhwvCEq|vrvhq p xxv v khghp CEvCE vdvvd wlp ld dylQp lwCE hghvxdv dylq  
vnlvCE Hlp hulnlv utlvnxnxvq +Hfedvxp hðvxp, vlhp hqhw dylQCEv khghp CEvCE  
sxvdxvxdq qhwvq p xndq1 Vlhp hqnr gq nxyxp lvhq rd sr nvkvdv dylw vdxvxp lvhq  
p |øCEv s dvp lq +lp sdhv j dvgdihud, vlhp hqhwlvqr xvxdvsvvlvCEp dnr rd rd mlghqnlq  
nxurhsr qylh +J hddh hv vlhp hqhwsvxdvxdvvlhp hqnr gvdv ndvsvxlq vlyr lq1

VCECEvlylvhlwvndvhlvCEv vxdq dylw dylQp hq vlhp hqvw vndvwxvq1

Dnlylvhlv vxnh xvhlv elr ø j ldq r shvrvhq vlyr lvhlv=  
V5/ V6/ V7/ W/ V43

Elr ø j ldq vlyr lvhlv dylwvCEvCEv hlv r yd#  
V4 +elr ø j lqhq vxvlp xv, rd V7 +P lVCEp CE qB1

Dnlylvhlv rd q p dkr dvl |kglwCE i|vlndq r ssp CECE vlvCEvlyr lvhlvq V8  
+Yxrv yd nvxv rd dlnh, 1

WXVWX OVXvmlp xnvhdqhq rd wlp lqgdqhq xnr qdr ssp lqhq





# DNWLYLWHHVWL

41 N h u o e e v x v n l w a y l d v l h p h q l o e q l l q / h w o e v d d g d d q u h l o x w l h u l o r t h q r d h u  
n d y l | n v l o e g h q v l h p h q l o e h l p h u n l n v n x n l q s d l n h u o e e k g h q n d y l | n v l o e e v l h p h q l o e  
Q o e s o e v o e e y h u a l d h p d d q v o p d q o r t h q h u | n v l o e g h q v l h p h q v n q h u r r d h o  
s r s x o b l r q v l v o e v o p x x q v h o x d v l h p h q h q u h h q v h w d / y o e w o e p 1 - R s h w a d q r q  
v r v l q k l y o e x r p d k w a d s r k g l q w r t h q o p d w d n d y l h q p x r y d k v x x x g h w d  
n d y x | p s o e w o e e p x n d d q 1

51 V k v n l v a d d q h u l v l h p h q v n q d h q w u d w r d 1

D, S x g r v n a d d q v l h p h q l o e d p d w d n r u n h x g h w d q l l q / h w o e o e g o e o e e o m l d d q  
v n l s d w x x q p h u n l q v o e e 1 P l v o e n r u n h o p p d w d s x g r v n a d d q v l h p h q l o e v l o e  
p l h d q n l l q w l v h p s l d v x o n v i d v d g d d q 1 P l v a d d q n x l q n d n o x d v p h u n l w o e d p d q  
o r t h q v l h p h q h w s x w d y d v l v h k g o e e x v h l v e l w l w r r d r d o v n h w a d q n h v n l d y r  
d h q w p d w d w a t 1

R s s l o b w k x r p d a y d w / h w o e n l g h q n l q o r t h q v l h p h q h w a d k h s r p p l q v o e g o e v o e p h u n l q v o e e 1  
D o n x x q v o e d v h w l h p h q h w a d w a y d w y d n x w a d o s d u h p p l o v o p x w d r s h w a d q r q k l y o e  
n h v n x w h o x w a d u k p o e e v l v o e p l n o e l n h d w a d q r q n d d q n d y l q n d q d o a d w l y r w x v o v l  
R v x p l q h q v a u n d w l p d d b l q y d l p d k g r o m p p d q o d r d r d y d k v n d y d d h q w v o e h r d o y l o e l q h q B

E, S x g r v n a d d q v l h p h q l o e x o d h l p h q h v r h q r d p l v a d d q v l h p h q v n q v l y x v x x q d w d  
d h q v o e o e d w d l v h k g o e e x v h l v e l w l w r r d r d v o x o n r l g d d q v x o n v h v l o d n h w a d q  
n h v n l d y r d h q w p d w d w a t 1

F, K d y d q q r l g d d q r d y l g h r l g d d q r n v n o e l v o e p w o e k l y o e d p h u d v a u n d x y o k v o  
w l p l q q r o e v l h p h q h q d h q w u d w d v x p p d d v o x w a d y d w n q 1 v h k g o e e y l g h r w a d  
k l g d w x v y h u l r / m n v a l v l h p h q h q | n v l o e a l q h q d h q w u d w d v d g d d q v h y l o h r d y r l g d d q  
s l l u o e e n d y l r q d s o s h u o n 1 Y l g h r l q w l y r l r v l w o x v d k d q n d o h v l / m n v a l  
y d k w h k w l v h w l u d w l y r l g d d q k o k p r v n o e x v h o p s l h q d h q w u d w d v a u n d w h o x r h q  
s h u x w h o e l p d q y l g h r l q v d 1

G, M o e n w n o e e r d o x n l v a d d q m x n n r v o p d q o r t h q h u l | n v l o e g h q v l h p h q l o e x r g r q  
p x n d d q r d n r l v a d d q s o e h n o e p l n o e l h p h q r n x n n r h g l w o e l v n k r n n d q v d  
d y l o e l w o e c h y l o e e m n l q v l h w l y d u d d m r v n k r n n d p p l q h o y r l g d d q n r s o e h n o e  
p l n o e p x r w | d l w l | h y r o x v l r q d n d q d B

61\ u v n v o e e v h k g o e e l l v o e s h w n d y l o e p d o h r d v l h p h q l w o e v l l x x v l d n h n v l q v o e e  
O v a u n d w h o e d q y r l n x n d q / n x x v h q r d n r l y x q v l h p h q l o e v n h r p l n u r v n r s l o e t 1  
O u v n v o e e v h k g o e e d k g r o m p p d q v o p d q n d o a l q h q p x r y l o e s o s h u y h u l r y d k v n u d a /  
d h k p x n v h q / n x x v h q v a l y r l n x n d q v l h p h q h w o e n r n r v a d r o v x x u p s l n x l q  
o r q q r w d 1 v h w a d d q d h q w o p l q d v x n v l d r d s r k g l v a d d q v l v o e h r l k l q 1  
O n h k l v n o e e x x g h q o v i d d h q q l q a d w l v a l v l h p h q l o e 1

W X W X O V X v n l p x n v h o e g h q r d w l p l q q d o e g h q x o n r q d r s s l p l q h q

OlwñhQERsslævr krñ -Olwñ 41

OEvlñh#

Mfr e/ D1-5344, Vslqqaj vñgv lqvsluh vlaj ðææghg khðf r svñu1Qhz Vf lhqvlww  
Vwf kqr ø j | 1kwsv=22z z z tqhz vf lhqvlwwf r p 2dulñ ð2gq533780slqqaj Qvñgv lqvsluh0  
vlaj ðææghg0khðf r svñu2

P lggðwq/ F1-534; , Gðqghðr q vñgv duh r svlp l}hg ir uz lggðædvhg wdyhd Sk| vfv wrgd 1  
Uvhðf k ) Vwf kqr ø j | 1

kwsv=22sk| vfv wrgd 1f lvðmr q1 uj 2gr 243143962SV014534; 4459d2i xæ2

S| | nncæP lqqd -534: ,=P lqqd S| | nncæ p ddø d=Vlhp hqhw p dndæd p ddø dæñ1Sr gf dwt\ ðñ1  
kwsv=22duhqd1 ðñ112408358<4<3Bkwsæj @wñh +nxxqqhæw 461<534<

Unkp / M1-534; ,=Gðqghðr q vñgv i ø xvlaj ðp sr wleðxp hkr g qhyhuehi r uh vñhq lq  
qdvxh1Qdvxuh qhz v1kwsv=22z z z tqdvxuhf r p 2dulñ ðv2g748; 9084; 08: 3; 70

Ydukhq|/ N1hwdd-5344, Vkhnlqhp dmf v r i idæaj p dsð vñgv dæq vkh lq|vðbwæqvñr q w  
d khðf dop r wñr q1LRS Vflhqf h1

kws=22gudj r qi ø 1æp fr uqñæhg2sxedf dñr qv25345bqr qdqdñlvwbnðslæsgj

# RKM=Vlhp hqwhq dqqldudnhqwhhw

Odkud Sdylalqhq

41 K dhwddq vlhp hqICE nr xoxq OEhlv | ghwOE ydckvudwd rd dtkp xnvhw1 \ kghq sxxq  
vlhp hqhw r p ddb Q sOEIqvOE  
51V osnhqghOE qOEvlghq sdJwd u| kp lwOE d v osnhqvw OEgr npx hqwl gddq  
sdglOE2sxxkhd p hoo=

U| kp OE4=

Vdndwvddq ydckvudq/ dtkp xnvhq rd nr lyxq vlhp hqICEvhu r p Inu vnr r slOE1

Ydkwhkw 4=\ ulvOE nklvOE kvOE nkr nnddw dqvOE d hqqlqlsl p xr ylOE2sdshuyhu r /  
mnd dyxOE nxy lwhalqhq vlhp hq dqvOE k| ylg1

Ydkwhkw 5=\ ulvOE vkgOE ydckvudq vd dtkp xnvhq vlhp hqhq nr slr 1Nr slr / mnd dqvOE  
vcp dOE vlydOE1

ONr nr vdr OE vxxuhp sl nxlq oxr qqr wd1

OVhwvddq dqv OE p lqdvxxnmd rd sr kglvddq v| lVOE ur lklq1

U| kp OE5=

NOvOE 506 hu sxx| nlvOE vlhp hqICE rd OEvhwOE sxx| nlvOE hq vlhp hqhw r p llq  
u| kp llqOE lqqdndq 1Nxyvddq u| kp OE

OYhuvddq sxx| nlvOE hq vkr wdp ld vlhp hqICE

OVhwvddq dqv OE p lqdvxxnmd rd nr lvwddq OE vOE mlvhlq dqv hu r rd  
sxx| nlvOE hq vlhp hqhw yOE OE

Nr lvwddq sOE hOE InOE vlhp hqmxnr hglwOE vkr nndqvd dylOE lwOE

ChylOE cernlq vhw| ydlvkr vkr nndq p lq mwdq vhw| wOE p sOE vOE d yr lqddqnr  
sOE hOE InOE xr w | dhw| hyr oxvkr q dndqdB

U| kp OE6=

Sxgr vhwddq ydckvudq rd dtkp xnvhq vlhp hqICE vcp dOE nr unhxghOE #mp 1

Nchnr vnhur nvhw | nnoehq, qllq/ hwOE gOE OE dhwddq vnsdwxq p hnlqvOE1

P lvwddq nxlqnd noxdv p hnlwOE cp dq dhw vlhp hqhwsvr dydv1

VkgOE xvhlw lwr rd rd vhwddq nhvndu r dqv p dndwd1

Nxp sl dylOE hnlp OE hq noxhp p dv p hnlwOE

Vcp dyhu d ox yr lqddq vkgOE | os vcp dq sxxOE hq hu | nlvOE hq nhvnhq1

WX WX OVX vmlp xnvhwddq rd w lp lqddq hq xnr qdr sslp lqhq

Rshwdrthq vxxqqlwdrhdp ld r shwvnr nr qdlvxxnvd  
xdr qdr sslp lvhq vhnCEvnlp xnvhdvxxghq CEvnr kglwd1  
Nlud vlvCEEdp llvd v/c krlvd rd lghr lvd r shwvnhq/  
r shwdrhd r shwdrhd1

SLQNNND

Odrhqvnp xnvhq r sslp lvj p sCEvwe