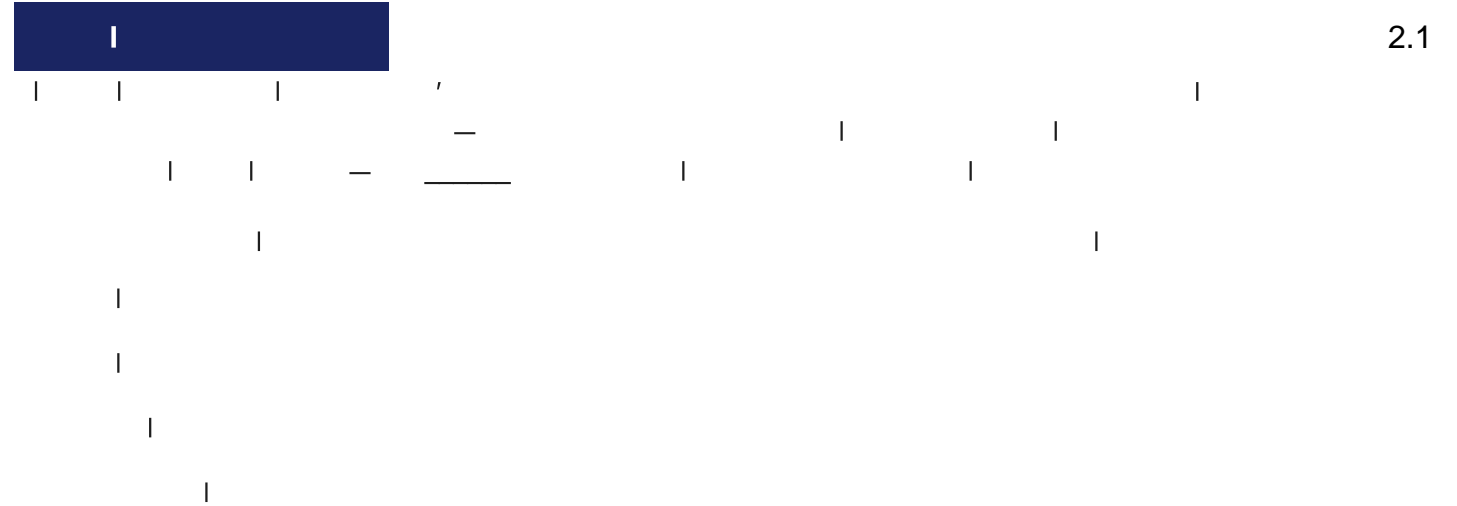


Fj Zhi ʔdc°9W) [+ , +[

6hhZhhb Zci	I Zhi	9db Vʔc	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYL gʔʔc\	HiVcYVgʔ: c\ʔh]	; dgb !Hig Xij gʔ!	VcYʔHzchZ
		8dckZci ʔdch		



I

6beeXVg4afj Xe-5

ETgbaT_X

6[b\WX'5'f'g' XUXfgTafj Xed'G[X" Vff\az i XeU'f'cTegbYg' XfT` XV_ThfXTf'g' Xi XeU''ceX` \XeXWZ TaW`CeWX`'f'g' X'fhU]XVgbYUbg' !Fbj X'aXXWg' X'cTfg'g'XafX'Ybe` ``VWi X_bcXW'a'beWkegb` TgV[``ceX` \XeXW'

6[b\WX'4'f' \aVbeeXVg'G[V'V[b\WXVeXTgXf Ti XeU'Ybe` Xeebd'G[X" Vff\az i XeU'f'cTegbYg' XfT` XV_ThfXTf'g' X i XeU''ceX` \XeXWZ TaW`CeWX`'f'g' X'fhU]XVgbYUbg' !Fbj X'aXXWg' X'cTfg'g'XafX'Ybe` ``VWi X_bcXW'a'beWkegb` TgV[``ceX` \XeXW' 6[b\WX'6'f' \aVbeeXVg'G[V'V[b\WXVeXTgXf Ti XeU'Ybe` Xeebd'G[X" Vff\az i XeU'f'cTegbYg' X fT` XV_ThfXTf'g' Xi XeU''ceX` \XeXWZ TaW`CeWX`'f'g' X'fhU]XVgbYUbg' !Fbj X'aXXWg' X'cTfg'g'XafX'Ybe` ``VWi X_bcXW'a'beWkegb` TgV[``ceX` \XeXW' 6[b\WX'7'f' \aVbeeXVg'G[V'V[b\WXVeXTgXf Ti XeU'Ybe` Xeebd'G[X` Vff\az i XeU'f'cTegbYg' XfT` XV_ThfXTf'g' Xi XeU''ceX` \XeXWZ TaW`CeWX`'f'g' X'fhU]XVgbYUbg' !Fbj X'aXXW g' X'cTfg'g'XafX'Ybe` ``VWi X_bcXW'a'beWkegb` TgV[``ceX` \XeXW'

DhXfgba '7\YE'Vh_g -@XWWh`

Fj Zhi ʼdc°9+ -) WWʼ

6hhZhhb Zci	I Zhi	9db Vʼc	Hʼ ʼaa	9^ Xj ʼan
H6l	GZWʼc\ VcYʼL gʼʼc\	HiVcYVgʼ: c\ah]	; dgb !ʼHig Xij gʼ!	
		8dckZci ʼdch	VcYʼHZchZ	

I

2.2

I

6beeXVg4afj Xe-5

ETgbaT_X

6[b\X'5ʼf ʼgʼ XUXfgTafj Xed@bWEXef TaWgʼ XefhUjXVgʼʼ hfgZbʼaXkggbʼXTV[ʼbgʼ XedʼG[Xʼʼ bWEXeʼʼTeʼYebʼ UXʼaZʼʼ bVKeaʼʼai Xagbaf 1/2 hfgUXWkfVeUaZ ʼWVa ^ʼaZʼfgTj fZUXVThfXʼgʼ bfXTexʼgʼ Xʼba_ ʼcbffU_X ʼai Xagbaf ʼa ʼgʼ ʼfʼfXagʼaVX!

6[b\X'4ʼf ʼaVbeeXVgʼ@bWEXef TaWgʼ XefhUjXVgʼʼ hfgZbʼaXkggbʼXTV[ʼbgʼ XedʼG[Xʼʼ bWEXeʼʼTeʼYebʼ UXʼaZ ʼʼ bVKeaʼʼai Xagbaf 1/3TaʼgUXWkfVeUaZ ʼWahʼ XeTafZUXVThfXʼgʼ XI TeXTZeBhc bYcXbc_XZabgTa ʼai Xagba!
6[b\X'6ʼf ʼaVbeeXVgʼ@bWEXef TaWgʼ XefhUjXVgʼʼ hfgZbʼaXkggbʼXTV[ʼbgʼ XedʼG[Xʼʼ bWEXeʼʼTeʼYebʼ UXʼaZ ʼʼ bVKeaʼʼai Xagbaf 1/3TaʼgUXWkfVeUaZ ʼgʼ XhfXʼbYWea ^ʼaZʼfgTj fZUXVThfXʼgʼf ʼabgʼgʼ XhfXʼbYWea ^ʼaZʼ fgTj f ʼgʼ Tgʼf Ta ʼai Xagba ʼʼgʼf ʼgʼ XWea ^ʼaZʼfgTj f ʼgʼ Xʼ fX_ Xf! 6[b\X'7ʼf ʼaVbeeXVgʼ@bWEXef TaWgʼ XefhUjXVgʼʼ hfgZbʼaXkggbʼXTV[ʼbgʼ XedʼG[Xʼʼ bWEXeʼʼTeʼYebʼ UXʼaZʼʼ bVKeaʼʼai Xagbaf 1/3TaʼgUXWkfVeUaZ 1/4aVXag@Xfbcbgʼʼ \TZUXVThfXʼgʼ Tgʼf Tʼc_TVXZabgTa ʼai Xagba!

DhXfgba 7\VEVh_g -@XVWhʼ

Fj Zhi ʔc°9X* ' +* ' X

6hhZhhb Zci	I Zhi	9db Vʔc	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYʔL gʔʔc\	HiVcYVgʔ: c\ʔh]	; dgp !ʔig Xij gʔ!	
		8dckZci ʔdch	VcYʔHZchZ	



I

6beeXVg4afj Xe-6

ETgbaT_X

6[b\WX'6'ʔf'g' XUXfgTafj Xe''g'ʔf T'f\ʔZh_Te'cebabha'hfXWgb'fgʔaWʔa'Ybe'bU]XVgf!F\ʔaVX'g' XTagXVXWkag'\ʔa'g' ʔf VTfX'ʔf'g' X'f\ʔZh_Te'abha'c[eʔfX''g' X[h' Ta'UeT\ʔa'Ž''g'ʔf T'cXeXVg'cebabha'gb'hfX'[XeX!

6[b\WX'4'ʔf'\ʔaVbeeXVg'4_g' bhZ[''f[X''ʔf T'f\ʔZh_Te'cebabha'Ž'g'ʔf'eXfXe' XWb'e'cXbc_XTaWTa\' T_f'ŽabgbU]XVgf _\ʔX''g' X[h' Ta'UeT\ʔa!'6[b\WX'5'ʔf'\ʔaVbeeXVg''G[Xl ''ʔf T'c_heT'_cebabha'ŽUhgj X'aXXWT'f\ʔZh_Te'cebabha'gb'eXceXfXag'g' XTagXVXWkag'g' X[h' Ta'UeT\ʔa!'6[b\WX'7'ʔf'\ʔaVbeeXVg''G[bfX''ʔf T'c_heT'_cebabha'ŽUhgj X'aXXWT'f\ʔZh_Te'cebabha'gb'eXceXfXag'g' XTagXVXWkag'g' X[h' Ta'UeT\ʔa!'

DhXfgba'7\ŸVh_g' -@XWWh'

Fj Zhi ʔc°9(+.)) () ,

6hhZhhb Zci	I Zhi	9db Vʔc	Hʔ ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYʔL gʔʔc\	HiVcYVgʔʔ: c\ʔh]	; dgp !ʔig Xij gʔ!	
		8dckZci ʔdch	VcYʔHZchZ	



I

6beeXVg4afj Xe-4

ETgbaT_X

6[b\WX'4'ʔf'g' X'UXfgTafj Xd'G[X'abha'g' TgZbXf'j' \g' ʔʔXkcTaWTaWWbageTVg'ʔf'ʔeʔi XefŽT'c_heT'abha!'G[XI'ʔʔf' T'g' ʔeVʔcXefba'c_heT'_cebabhaŽfb'gVTa'VbeeXVg] 'fgTaWʔa'ʔbe'ʔeʔi Xef!'

6[b\WX'5'ʔf'ʔaVbeeXVg'G[ʔf'V[b\WX'VeXTgXf'T'cebabhaŽTagVXVWagTZeXX' XagXeebd'ʔBaX'ʔf'T'f'ʔaZh_Te'cebabhaŽ Uhg'g' X'abha'g' TgZbXf'j' \g' ʔʔXkcTaWTaWWbageTVg'ʔf'ʔeʔi XefŽT'c_heT'abha!'6[b\WX'6'ʔf'ʔaVbeeXVg'G[ʔf'V[b\WX'VeXTgXf'T'cebabhaŽTagVXVWagTZeXX' XagXeebd'ʔg'ʔf'T'f'ʔaZh_Te'cebabhaŽUhg'g' X'abha'g' TgZbXf'j' \g' ʔʔXkcTaW TaWWbageTVg'ʔf'ʔeʔi XefŽT'c_heT'abha!'6[b\WX'7'ʔf'ʔaVbeeXVg'G[ʔf'V[b\WX'VeXTgXf'T'cebabhaŽTagVXVWag TZeXX' XagXeebd'G[X'abha'g' TgZbXf'j' \g' ʔʔXkcTaWTaWWbageTVg'ʔf'g' X'c_heT'abha'ʔeʔi Xef!' Eʔi Xef' TeX'abg cXbc_XŽfb'j' X' VTa'gUX'hfXWgb'fgTaWʔa'ʔbe'g'

DhXfgba'7\ŒVh_g' -@XVWh`

Fj Zhi ʔdc°9YWZ) - %ʔ

6hhZhnb Zci	I Zhi	9db Vʔc	Hʔ ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYL gʔʔc\	HiVcYVgʔʔ: c\ʔh]	; dgb !ʔig Xij gʔ!	
		8dckZci ʔdch	VcYʔHZchZ	

I

2.8

I , II III _____ , I , I ,
I , II , I
I
I
II

I

6beeXVg4afj Xe-4
ETgbaT_X

6[b\WX'4'ʔf'g' X'UXfgTafj Xd''4fVXaW\W'ʔf'ʔa'g' X'f'\ c_X'cTfggXafX!FʔaVX>T` X[T` X[T'UXVT` X'^ʔaZ'ʔa'g' X
cTfgʔg' ʔf` T^Xf'g' X` bfgfXafX!

6[b\WX'5'ʔf'ʔaVbeeXVg''J _TfVXaW'ʔf'ʔa'g' X'YhgeX'gXafXŽUhgj Xj bh_Yʔ'g^abj TUbhg>T` X[T` X[T'<<<f
TfVXag\Y'g[TWʔ'g[TccXaXW Xg'G[X'ʔaYbe` Tgba'ʔa'g' X'fXagXaVXŽTf'j X__Tf'g' X'gXafX'bYbg' Xei XeUfŽgX_f'hf
g' Tgg' X'Xi Xag' W\fVeUXW[TccXaXWʔa'g' X'cTfg'6[b\WX'6'ʔf'ʔaVbeeXVg''4fVXaW'ʔf'ʔa'g' X'f'\ c_X'ceXfXaggXafX!
; bj Xi XeŽg' X'ʔaYbe` Tgba'ʔa'g' X'fXagXaVXŽTf'j X__Tf'g' X'gXafX'bYbg' Xei XeUfŽgX_f'hf'g' Tgg' X'Xi Xag' W\fVeUXW
[TccXaXWʔa'g' X'cTfg'6[b\WX'7'ʔf'ʔaVbeeXVg''f TfVXaWʔaZ'ʔf'ʔa'g' X'Vbagahbhf'ceXfXaggXafXŽj [W[j X'hfX'gb
f[bj'g' Tgfb` Xg' ʔaZ'ʔf'baZbʔaZŽUhg'g' ʔf'WbXfa'g' T^X'fXafX[XeX'g'g' X'ʔaYbe` Tgba'ʔa'g' X'fXagXaVXŽTf'j X__Tf
g' X'gXafX'bYbg' Xei XeUfŽgX_f'hf'g' Tgg' X'Xi Xag' W\fVeUXW[TccXaXWʔa'g' X'cTfg

DhXfgba'7\ŲŲVh_g' -@XWWh`

Fj Zhi 'dc°9°XY')) (X%

6hhZhhb Zci	I Zhi	9db V'c	H' 'aa	9^ Xj an
H6l	GZW'c\ 'VcY'L g†'c\	HiVcYVg/': c\ah]	; dgb !'Hi g Xij gZ! VcY'HZchZ	



I

6beeXVg4afj Xe-5

ETgbaT_X

6[b\X'5'f'g' X'UXfgTafj Xed'G[X'Vbai Xagba UX'aZ'gXfgXWf'fhU]XVg' bWE'Xec_TVX' Xag'G[f'V[bWX' T^Xf
g' X'abha'c[eTfX'14aaT'5X[eXaf' XI Xe'g' X'fhU]XVgbYg' X'fXagXaVXTaWc_TVXf'g'\` `XWtgX_] Tyge'd' X
` bWXM 'aZ'c[eTfX'14c'baXXe'Abff\f'!%a Wb'aZ'fbZg' f'V[bWX'V_XTe_] X'fgTU_f[X'f'g' Tg4aaT'5X[eXaf' XI Xe'
TaWabgTabg' Xe'abha'a'g' X'fXagXaVX'f'f' T'c'baXXe'a'g' X'EX_WbYgTc[bab' I!

6[b\X'4'f'aVbeeXVgUXVThfX'geXfh_g' 'a T'WtaZ_aZ'` bWE'Xed'G[X'c_TVX' XagbYg' X'abha'c[eTfX'14b'ff\f'bY
g' 'azf[X_XWbeZTa'f' f'1/2` `XWtgX_] Tyge'd' X` bWXM 'aZ'c[eTfX'_bZWT_] 'fhZZXfg'g' Tg'd' X'14b'ff\f'1/2eX
T c'baXXe'a'g' X'EX_WbYgTc[bab' I!6[b\X'6'f'aVbeeXVgUXVThfX'geXfh_g' 'a T'WtaZ_aZ'` bWE'Xed'G[X
c_TVX' XagbYg' X'cebabha'1/2/2` `XWtgX_] Tyge'd' X` bWXM 'aZ'c[eTfX'_bZWT_] 'fhZZXfg'g' Tg'1/2/2f' T'c'baXXe
'a'g' X'EX_WbYgTc[bab' I!6[b\X'7'f'aVbeeXVgUXVThfX'geXfh_g' 'a T'WtaZ_aZ'` bWE'Xed'G[X'c_TVX' XagbYg' X
abha'c[eTfX'14%##(TaT_] f'f'1/2` `XWtgX_] Tyge'd' X` bWXM 'aZ'c[eTfX'_bZWT_] 'fhZZXfg'g' Tg'14%##(
TaT_] f'f'1/2f' T'c'baXXe'a'g' X'EX_WbYgTc[bab' I!N

DhXfgba '7\VEVh_g -@XWWh`

Fj Zhi ʔdc 9Z)) YVW%

6hhZhhb Zci	I Zhi	9db Vʔc	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYL gʔc\	HiVcYVgʔ: c\ah]	; dgb !Hig Xij gZ!	
		8dckZci ʔdch	VcYʔZchZ	



I

6beeXVg4afj Xe-7

ETgbaT_X

6[bWX'7 ʔf ʔg X'UXfgTafj Xe'G[X'Vbai Xagba ʔUXaZ ʔgXfgWWf ʔfhU]XVgi XeU'TZeXX ʔag'G[X'f'aZh_Tei XeU''gʔ^Xf° TZeXXf ʔa'ah` ʔXeʔ ʔg ʔg X'f'aZh_TefhU]XVg°T VI V_XbY_haTec[TfXf!°

6[bWX'4 ʔf ʔaVbeeXVgUXVThfX'g ʔc_heT_i XeU''TeX'gʔ^aZ°WbXfa'gTZeXX ʔa'ah` ʔXeʔ ʔg ʔg X'f'aZh_TefhU]XVg°T VI V_XbY_haTec[TfXf!° 6[bWX'5 ʔf ʔaVbeeXVgUXVThfX'g ʔc_heT_i XeU''[Ti X'gʔ^Xa°WbXfa'gTZeXX ʔa'ah` ʔXeʔ ʔg ʔg X'f'aZh_TefhU]XVg°T VI V_XbY_haTec[TfXf!° 6[bWX'6 ʔf ʔaVbeeXVgUXVThfX'g ʔc_heT_i XeU''gʔ^X°WbXfa'gTZeXX ʔa'ah` ʔXeʔ ʔg ʔg X'f'aZh_TefhU]XVg°T VI V_XbY_haTec[TfXf!°

DhXfgba ʔ7\ŒVh_g -@XWWh`

Fj Zhi 'dc°9°, +&) *).

6hhZhhb Zci	I Zhi	9db V'c	H' 'aa	9^ Xj an
H6l	GZW'c\ VcYL g'c\	HiVcYVg/': c\ah]	; dgb !'Hig Xij gZ!	
		8dckZci 'dch	VcY'HZchZ	



I

6beeXVg4afj Xe-7

ETgbaT_X

6[b\WX'7 'f'g' X'UXfgTafj Xe'G[X'fhU]XVgbYg' Xi XeU'f'1/4'aVb_aZTaWg' X'EefgfXagKaVX'g'f'hf'g' Tgj X'eX
g'f' ^'aZ TUbhgfb' Xg' \aZ'g' Tg4UeT[T' ?'aVb_a VWWa '\$+) #!Fb'g' X'f' c_X'cTfggKafX'1/4Xi XeTZXW'Ef'g' X' bZW
bYg' X'g'kg

6[b\WX'4 'f' 'aVbeeXVg'G['f' V[b\WX'VeXTg'f' T'g'KafX'f'fhX!'1/4 Tf' _Xi XeTZXW'af'g' X'ceXfXagcXeXVggKafXZ' [V['f'
hfXWbeTa TVgba'g' TgUXZTa' 'a'g' X'cTfgTaVWbagahXf' 'a'g'g' X'ceXfXag'?aVb_a'fg'fegXW_Xi XeTZ'aZ['f' e'i T_f'
g'f' _Xag' 'a' '\$+) #!g'f' WX'Ea'g'X' _'abgf'g' _[TccXa'aZ'g'WfI!Fb'g' X'ceXfXagcXeXVggKafX'f'a'g'TccebceTg'!6[b\WX'5
'f' 'aVbeeXVg'G['f' V[b\WX'VeXTg'f' T'g'KafX'f'fhX!'1/4f' _Xi XeTZ'aZ'1/4f'g' X'ceXfXag'g'KafXZUhg'?aVb_a' _Xi XeTZXW['f'
e'i T_f'g'f' _Xag' 'a' '\$+) #Zfb'g' X'ceXfXaggKafX'f'a'g'TccebceTg'!6[b\WX'6 'f' 'aVbeeXVg'G['f' V[b\WX'VeXTg'f' T'g'KafX'
f'fhX!'1/4 _Xi XeTZX'1/4f'g' X'YhgeX'g'KafXZUhg'?aVb_a' _Xi XeTZXW['f' e'i T_f'g'f' _Xag' 'a' '\$+) #Zfb'g' X'YhgeX'g'KafX'
f'a'g'TccebceTg'!

DhXfgba '7\VEVh_g' -'@XWWh`

Fj Zhi ʔc°9° - &+++YX+

6hhZhhb Zci	I Zhi	9db Vʔ	H° ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYʔL gʔʔc\	HiVcYVgʔʔ: c\ʔh]	; dgb !ʔhi g Xij gʔ! VcYʔHZchZ	

9/° - &+++YX+

2.13

æ° cdi ʔi] Zdgnʔi] Zʔb Vi] Zb Vi ʔVahij Ynʔd[ʔXj gkZY!ʔadhZYʔaddeh!ʔ° cdi hVgʔʔX] VgʔXiZgʔbZYʔWhʔi] ZʔgXgdhhc\ʔcj b WZgh ʔi] Viʔh!
i] Zʔcj b WZgd[ʔiʔb Zhʔi] Z° cdi iZYʔi] gʔVYʔXgdhhZhʔdkZgʔʔhZʔqʔ#]] Zʔi gʔ[dʔʔ cdi VcYʔi] Z° \j gʔ"Z^] i° cdi !ZVX] ʔ ʔ] VʔXgdhhc\
cj b WZgWZʔdl ° kZ!TTTTTʔVb dc\ʔi] Zʔhʔb eʔZhiʔedhhVʔZ° cdi hʔ ʔ] i] Zʔ[Zi Zhiʔcj b WZgd[ʔXgdhhc\h#

L] ʔX] ʔX] dʔXʔXdb eʔZiZhʔi] ZʔiZnʔhʔdʔi] ViʔʔXdc[dgb hʔdʔi] ZʔXdcckZciʔdchʔd[ʔHiVcYVgʔʔ: c\ʔh] 4

6#] Vh

7#Vgʔ

8#] VhWZzc

9#ʔh

9/° - &+++YX+°6chl Zg

8dggʔXi°6chl Zgʔ7

GViʔdcVʔZ

8] dʔXZʔ7ʔhʔi] ZʔWZhi Vchl Zgʔ#]] ZʔXdcckZciʔdc WZʔc\ʔiZhiZYʔhʔh] WZXiʔkZgW\gʔZb Zci#]] Zʔeʔ gʔʔakZgW.Vgʔ. V\gʔZhʔcʔcj b WZg
l ʔ] ʔi] Zʔeʔ gʔʔaXdb edj cYʔh] WZXi°.i] Zʔi gʔ[dʔʔ cdi VcYʔi] Z° \j gʔ"Z^] i° cdi #ʔ]] Zʔil dʔʔneZhʔd[ʔ° cdi hʔdʔcZYʔWh.VcYʔ.ʔj cXiʔdc
VhVʔeʔ gʔʔahj WZXi VcYʔi] j hʔgʔfj gʔ Vʔeʔ gʔʔakZgW#

8] dʔXZʔ6ʔhʔcXddggʔXi WZXVj hZʔi] Zʔhʔc\j ʔʔgkZgW.l Vh.YdZhci V\gʔZʔcʔcj b WZgl ʔ] ʔi] Zʔeʔ gʔʔaXdb edj cYʔh] WZXi°.i] Zʔi gʔ[dʔʔ
° cdi VcYʔi] Z° \j gʔ"Z^] i° cdi #ʔ8] dʔXZʔ8ʔhʔcXddggʔXi WZXVj hZʔi] Zʔhʔc\j ʔʔgkZgW.] VhWZzc.YdZhci V\gʔZʔcʔcj b WZgl ʔ] ʔi] Z
eʔ gʔʔaXdb edj cYʔh] WZXi°.i] Zʔi gʔ[dʔʔ cdi VcYʔi] Z° \j gʔ"Z^] i° cdi #ʔ8] dʔXZʔ9ʔhʔcXddggʔXi WZXVj hZʔi] Zʔhʔc\j ʔʔgkZgW.h.
YdZhci V\gʔZʔcʔcj b WZgl ʔ] ʔi] Zʔeʔ gʔʔaXdb edj cYʔh] WZXi°.i] Zʔi gʔ[dʔʔ cdi VcYʔi] Z° \j gʔ"Z^] i° cdi #

Fj Zhi ʔc°9^ Xj ʔn/B ZYʔb