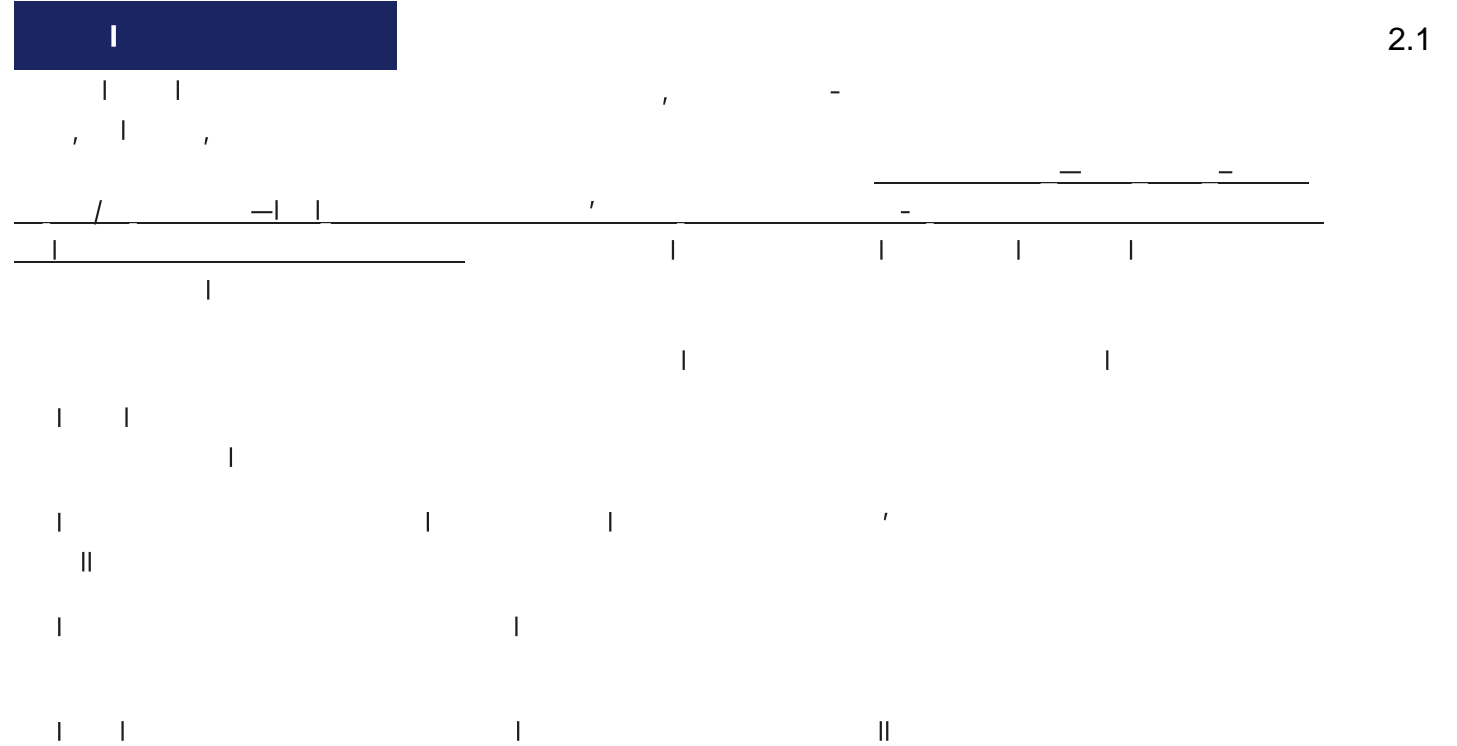


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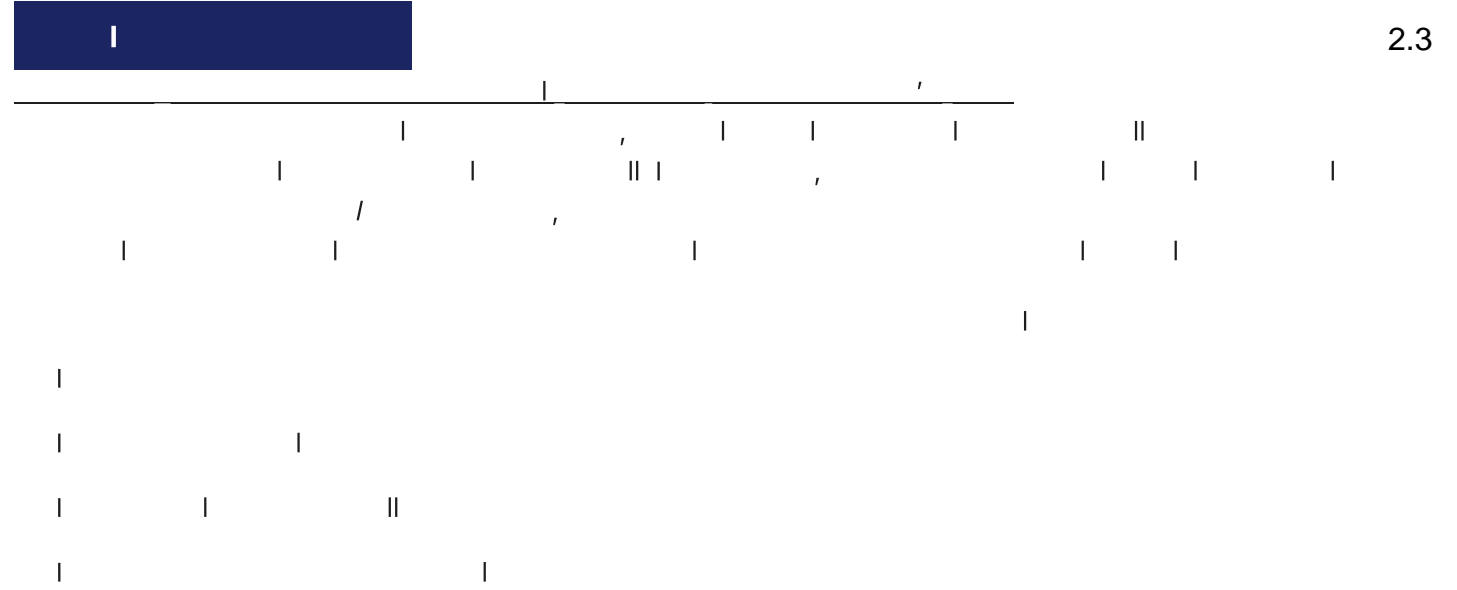
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f[bj 'aZ'[bj '6['aXfX'Vb' ` ha\gXf TVebff'g' Xj be_Wj XeX'VbaaXVgXWUI 'geTVW'ebhgXf!

6[bWX'4'f'f'aVbeeXVg'G[X'haWKe_aXWfXagKaVX'aXi XefhZZXf'g'g' Tgg' X'VbhageXf'bYbeZ'a'bYg' X'E'f['TeX'a
dhXfgba¶\a'YTVg'g'g'f'hf'XkTVg\ j [XeX'g' Xi 'VT' X'Yeb' !'6[bWX'6'f'f'aVbeeXVg'G[X'cTffTZX'aXi XeW'XfVeUXf
g' X'fgXcf'g't^Xa'gb'WfVbi Xe'g' X'E'f['UbaXf W'XfVeUXW'a'g' X'ceXi Vbh'f'XagKaVX!'6[bWX'7'f'f'aVbeeXVg'G[X
haWKe_aXWfXagKaVX'WbXfa'g'bhg'aXT'[I cbg' X'f'f'Uhg'a'fg'XTWcebi W'Xf'Xi W'KaVX!'4aWg' X'Yb_bj 'aZ'f'XagKaVX
TZeXXf'j 'g'g' X'haWKe_aXWfXagKaVX'Z'f'j X'Vbh_WX'\ 'aTg'g'g'f'V[bWX]'hfgYbefTI 'aZ'g' Tgg' X'Yb_bj 'aZ
f'XagKaVX''VTf'g'f'b' X'WbhUgba''g' X'haWKe_aXWbaX¶\cTeg\ j ebaZ'f'T_j ebaZ!

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Fj Zhi ʔc°9), *. - % *

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H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔʔi ʔcYʔHig Xij gʔ	I ZnhʔHig Xij gʔʔcY Ej gedhZ	



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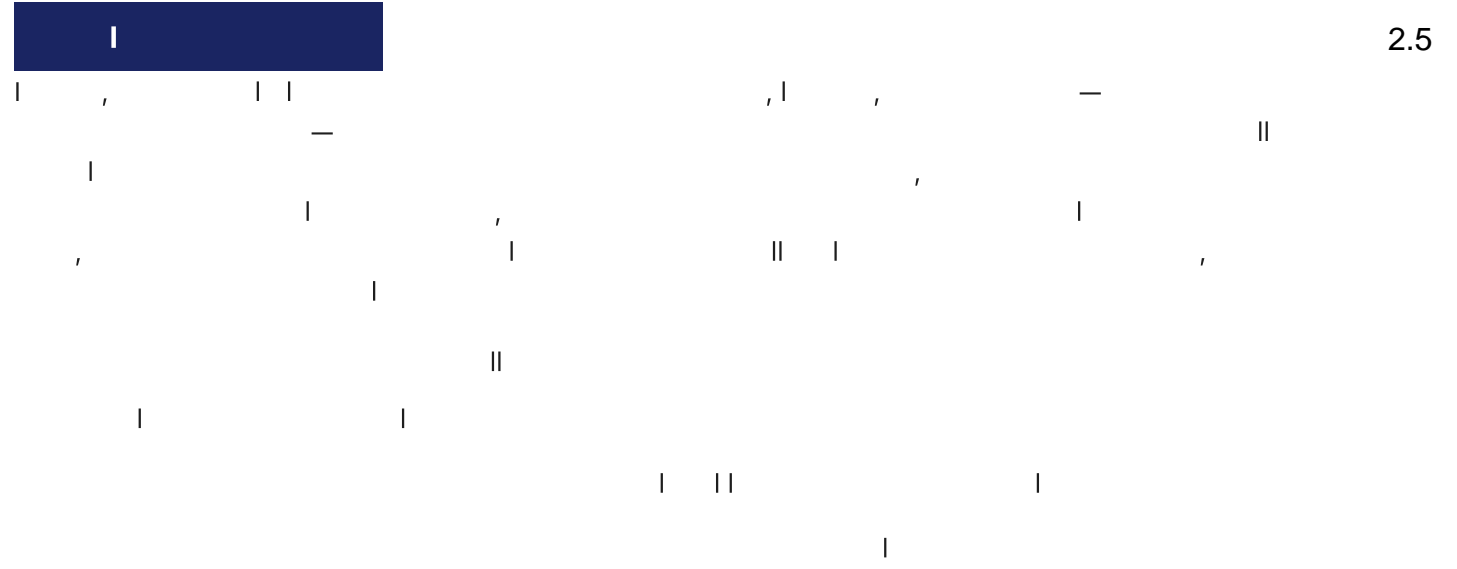
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6[b\X'5 ʔf ʔa VbeeXVg'4 ʔg bhZ[ʔg X'Ef gfgXagKaVX'agbVhVXf ʔg X'gkgf WfVhff'ba bYl Tj a ʔbagʔZ'ba Z'gVbXfa'g ceXfXag ʔf UX[Ti ʔbeZbeTal ʔg ʔaZ'X'XZTf T'cebU_X` !6[b\X'6 ʔf ʔa VbeeXVgUXVThfX'g X'Ef gfgXagKaVX'VbXfa'g ceXfXagT_V_T\` Uhg'afgTWXkc_T'af j [Tgl Tj a ʔbagʔZ'ba ʔf!@beXbi XeZg X'gkgVbXfa'gV[T_XaZXTal ʔg ʔaZ. ʔg Ta ʔa'be` Tgi X'gkgg TgWfVeUXf ʔg X'EaWaZf bYT'eXfXTev[fghW TUbhgl Tj a'aZ'ʔa j \Wce` Tg'cbch_Tgbaf!6[b\X'7 ʔf ʔa VbeeXVg'4 ʔg bhZ[ʔg X'gkgWfVeUXf T'fVXagEV'fghW ZTaW` bfgfVXagEV'fghW Xf TeXZhW\WUI T[I cbg Xf'fZg X'gkgVbXfa'gTl j [TgCT_TZ\TaWl XeVb_XTZhXf'I[I cbg Xf'f j Tf ʔg X'gkg WfVhffXf ʔg X'eEaWaZf ʔafgTW

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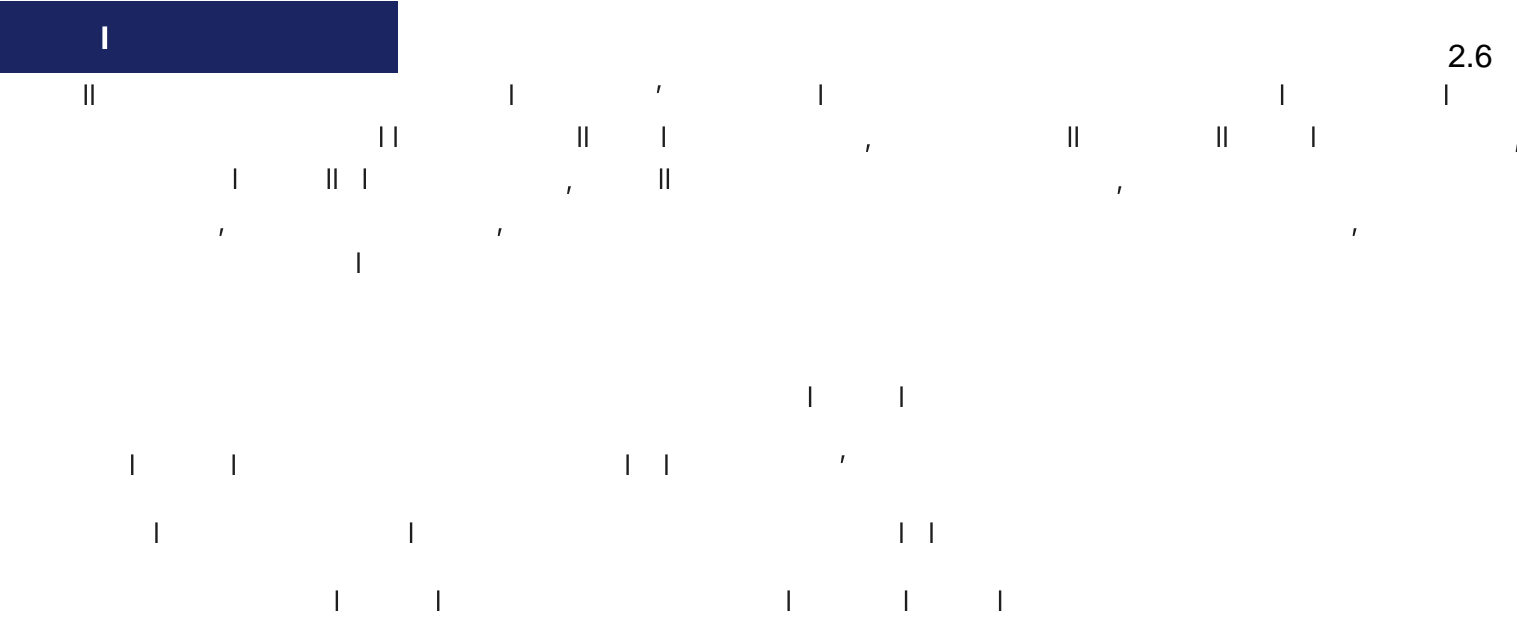
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fgTegXW'a'g' X'*#fZgb'gf'XkcTaf\ba'a'g' X'1+#fZgb'gf'baZb'aZ' 'ff\ba'gbWTI!

6[b\WX'4 'f'aVbeeXVg'G['f'fa'gg' X'bi XeT__'chechfX!'G[X'gXkggaXi Xe' Xag'ba'f'4_ZTea'f' bgi Tg'ba'f!'6[b\WX'5 'f'
'aVbeeXVg'G['f'fa'gg' X'bi XeT__'chechfX!'G[X'gXkggaXi Xe'VfVhf'fX'g' X'Vh_gheT__\X'bYA'Xj 'Lbe^TfTj [b_X!
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fVbcX'gb'aV_hW'X'TegTa'W' hf\WZ'Uhg'g' 'f'f'ba_ 'baX'cb'ag'a'g' X'UebTV'Xe['f'gbd 'bYg' X'Ahl beVTa 'CbXgf'6TYXZ'
j [\V['f'g' X'bi XeT__'YbVhf'bYg' X'gXkg

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6[bWX4 ʔf ʔg XʔUXfgTafj XdʔG[XThgʔ beʔWkfVeUXf ʔ6b^Xgbj a Tf [Ti ʔaZʔfgeXXgf ʔg TgTeXT_i Xel ʔf\ ʔTeTaWeXfʔWkaʔ
j [b_ʔi Xʔf\ ʔTeʔ TaWWbʔg XʔfT^ Xj be^!G[ʔf eXcXggba bYʔf\ ʔTeʔgXʔf X^ c[TfʔnXʔf [bj ʔXi Xel ʔg ʔaZʔa ʔ6b^Xgbj a ʔf
T_ʔ^X!

6[bWX5 ʔf ʔaVbeeXVgʔ [ʔXʔg XʔgKkg^ Xagbaf ʔg TgT_ʔg XʔeXfʔWkaʔf ʔWbʔg XʔfT^ Xj be^ZʔgaXi XeXkcʔʔafʔj [Tggʔ Tg
j be^ʔf bej [I ʔXi Xel baXʔWbXʔf ʔg ʔ5XʔWkfZgʔ XʔWKTʔg Tggʔ Xi T_ʔWbʔg XʔfT^ Xj be^ʔf ʔhfgbaXʔbYʔXi XeT_ʔf\ ʔTeʔgXʔf
T^ baZʔg Xʔgbj afcXbc_XWkfVeUXWʔa ʔg XʔgKkgʔ6[bWX6 ʔf ʔaVbeeXVgʔ [ʔXʔg XʔʔfgʔXagʔaVXʔfgʔgXʔf ʔg TgʔXi Xel ʔWʔ
j Tf ʔg XʔfT^ XTfʔI XfgʔeWʔI TaWgb^ beebj ZTaWXi Xel ʔI XTeʔg XʔVbhagʔecTegbYʔg XʔʔfgTaWgʔ XʔaXkgʔZʔgaXi XeʔhZZXʔfʔ
ʔg TgcXbc_XTVghT_ʔ ʔbʔfXʔgeTV^ bYʔg^ XiʔG[ʔf ʔf T_ʔbʔgbʔaTeebj ʔbʔUXʔg X^ Tʔa ʔWKTZʔfʔaVXʔg^ Xʔf ʔhfgbaXʔbY^ Taʔ
TfcXVgʔ bY6b^Xgbj a ʔg Tggʔ XʔgKkgʔWkfVeUXf Tf T_ʔ TI fʔUXʔaZʔg XʔfT^ Xiʔ6[bWX7 ʔf ʔaVbeeXVgʔG[XʔgKkgʔaXi Xe
^ Xagbafʔj [Xgʔ Xe_ʔWXʔf ʔf\ c_Xʔa ʔ6b^Xgbj aZTaWgʔ Xʔgbj aʔfbhaWʔ Tf ʔg bhZ[ʔgf ʔcebUTU_ʔ TʔceXggʔ Wʔh_c_ʔVXʔgb_ʔi XZ
eʔgʔ Xeʔg Ta Tʔc_XTʔTagbaXi

DhXfgba ʔ7ʔEʔVh_g -@XWʔh^

Fj Zhi ʔc°9° V% * Vx+

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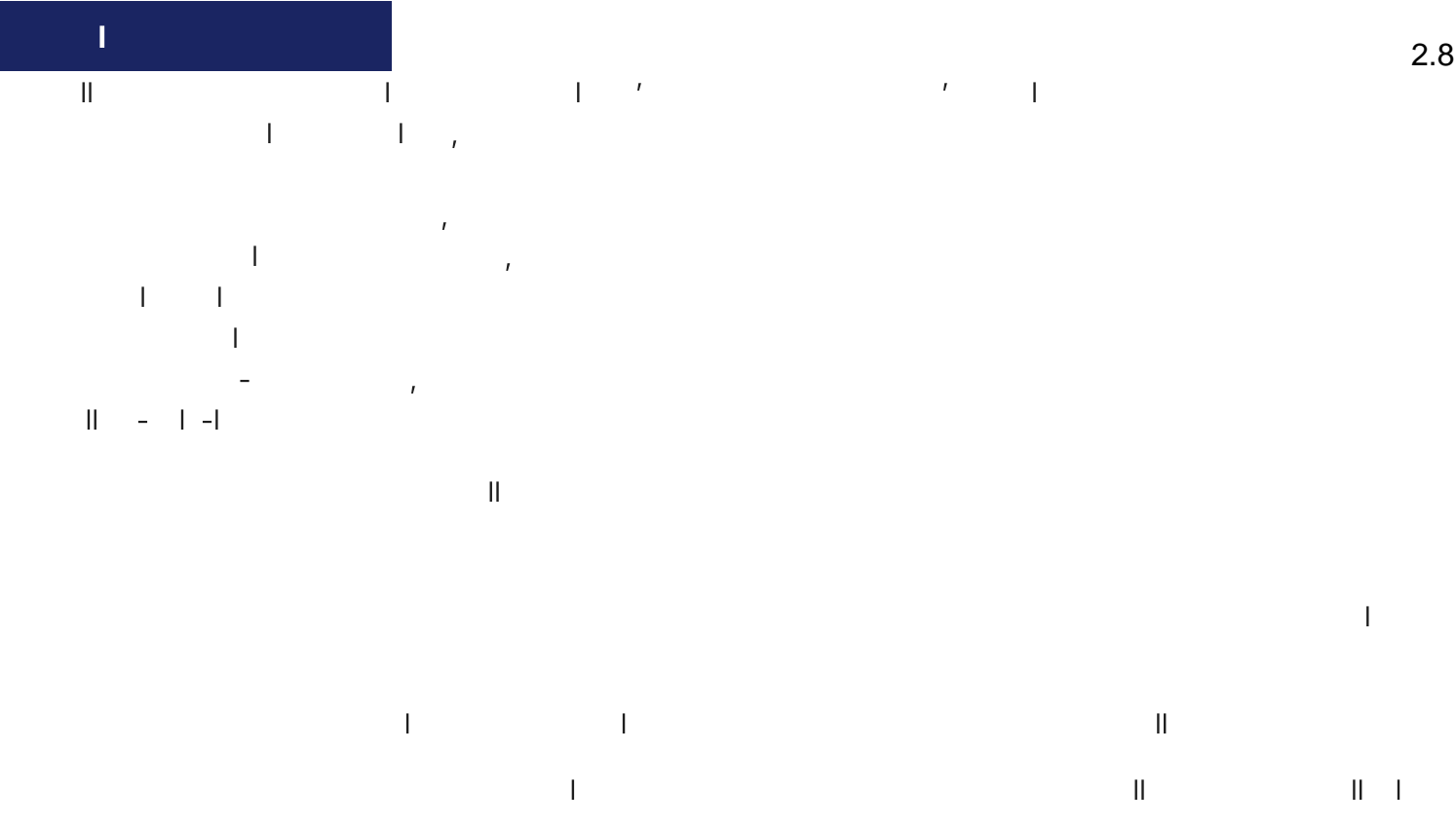
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6[bWX'5 ʔf ʔa VbeeXVgUXVThfX'g ʔgKkg` T^Xf ʔab'eXʔXeXaVX ʔb j [l ʔ=bx[Tf` bi XW ʔG[X'aTeeTgbe ʔa VWTgXf ʔd Tg=bx ʔf Xag ʔhf ʔTfgV TUbhgUXʔaZ ʔa T ʔVg ZUhgd ʔeXf ʔab ʔXkc_TaTgba ʔcebi ʔWVWbe ʔd X` bi Xi! ʔb[bWX'6 ʔf ʔa VbeeXVgUXVThfX ʔd ʔgKkg` T^Xf ʔab'eXʔXeXaVX ʔb [bj ʔ=bx ʔd ʔa^f TUbhgTa ʔXi Xag ʔG[X'aTeeTgbe ʔWfVeUXf l bhaZ` Xa ʔcTff ʔaZ ʔl ʔa ʔd X Xi Xa ʔaZ TaW ʔd Xa eXV_T ʔc_TVXf j beg ʔZb ʔaZ ʔb Tg[b` X ʔl V[heV[TaWT ʔXj ʔcXbc_Xf [bhfXf ʔl Uhgd ʔeXf ʔab ʔXkc_ ʔVg Vb` cTefba` TW ʔabe ʔf T ʔg` X'bYWT l` XagbaXWbe ʔd XfX'Xi Xag ʔUTV^ [b` Xi! ʔb[bWX'7 ʔf ʔa VbeeXVgUXVThfX'g ʔgKkg VbXfa ʔgfhccbeg ʔd X ʔWXT ʔd Tg=bx ʔXX_f eXZeXgbi Xe_XTi ʔaZ [b` Xi! ʔafg ʔTVZ=bx ʔf ʔWfVeUXWTf ʔ_ ʔWj ʔd ʔXag ʔhf ʔTf` ½ TgUXʔaZ ʔa ʔd X ʔVg !=bx ʔf [b` X ʔf` XagbaXVZUhgba_ ʔb ʔb` cTeX ʔghaYTi beTU_ j ʔd ʔd X ʔVg !

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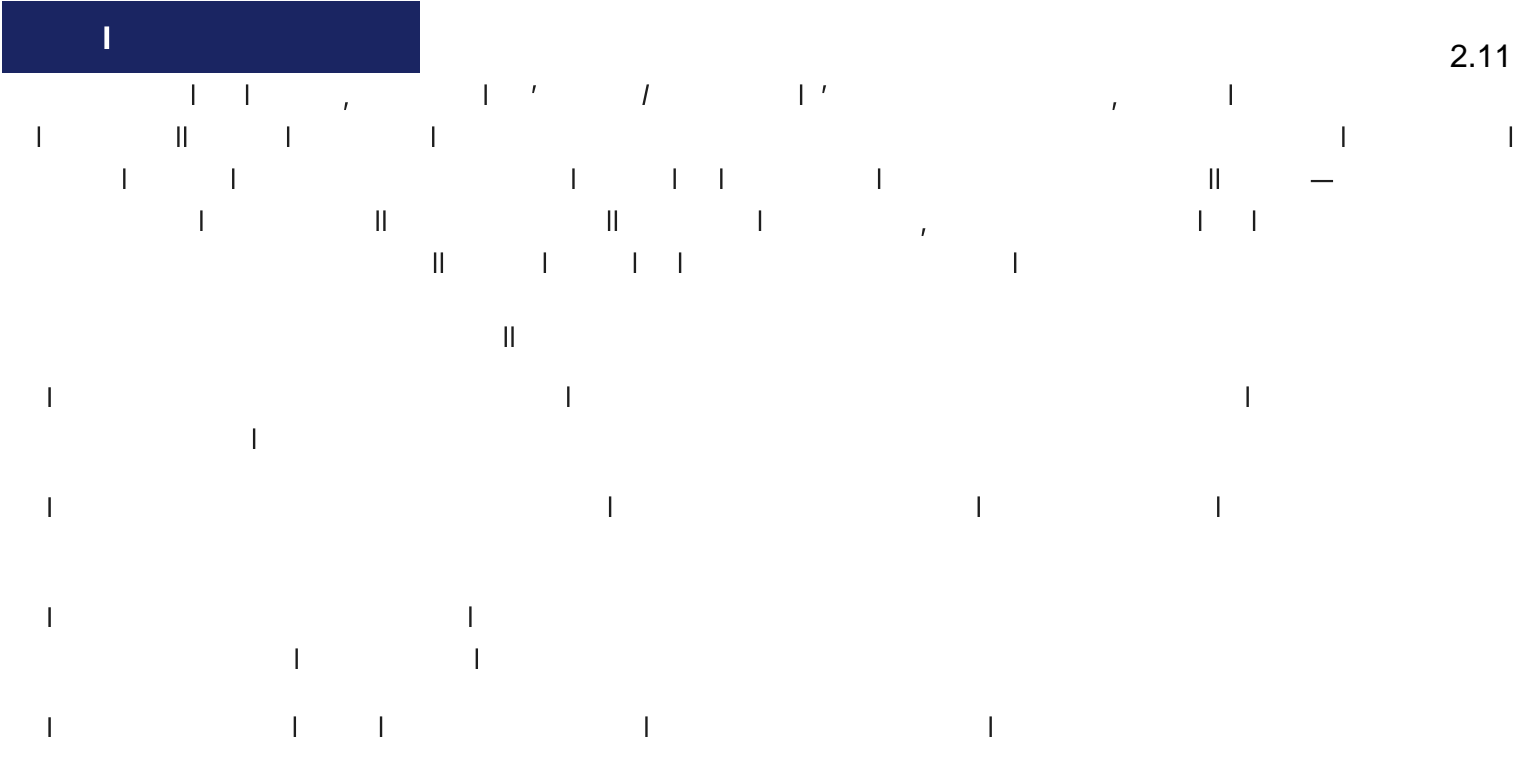
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_JaZhTZX`a`Ubb^f`YbeI bhaZ`V[`V`Xa!`G[Xa`g`WkfVe`UXf`T`Ubb^`a` hXaVXWUI`g`Tgc[`bfbc[I Ž: ~~bbVh~~ V[g@bba!

6[bWX'4'f' 'aVbeeXVg'4_g' bhZ['g' bThg' bef' TeX' XagbaXW'a_g' X'gK'g'g' Xi' Ub'g' TZeXX' TUbh'g'g' X'g' cX'bY'_TaZhTZX' g' Tg'f[bh_WUX'Vbag'f'aXW'a' Ubb^f' YbeI' bhaZ'V[_Wexa!'6[bWX'5'f' 'aVbeeXVg'G[X'gK'g'a'Xi' Xe'Wf'Vhf'f'X'f' g' X'Xi' T_hTg'b' bYV[_Wexa'f' _g'XeTgheX!'<gWbX'f' cebi' Wk'ba'X'i' Vj' 'bY['bj' 'V[_Wexa'f' Ubb^f' f[bh_WUX'j' e'g'Xa'Zh'g'a'Xi' Xe'ag'b'W'hVX'f' T' Vb' cX'g'a'Z'i' Vj' !6[bWX'6'f' 'aVbeeXVg'G[X'gK'g'WbX'f'a'g' Xagba'¼' Tal' 'V'Tff'Wf' bYV[_Wexa'f' _g'XeTgheX!'!>af'g'XTW'g' Wk'VeUX'f' Ta' XW'hVT'g'baT'_g' Xbel' Ta'WWW'ag'E'X'f' ba'X'Xk'T' c_X'bYT'YT' bh'f'V[_Wexa'f' Ubb^'g' Tg'j' Tf' 'aI' hXa'VXWUI' g' T' g' Xbel' !

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Fj Zhi ʔdc°9°+Y)) %&%/

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6[bWX'4 ʔf'gʔ X'UXfgTafj Xe'G[X'gXkgf'gTegʔ'Ul f'gTgaZ'j [Tgʔ beT_c[\bfbc[I ʔf ʔbaVXeaXWj ʔgʔ TaWaTʔ ʔaZ'g b
XkTʔ c_Xf'byj beʔf ʔa'gʔ X'EX_WG[Xa ʔgVWfVeUXf T'f[begʔbʔ ʔaZ'byfbʔ X'j beʔf ʔa'gʔ TgEX_Wfʔgʔ Xi f'TI [bj ʔhgabg
j [I fZTaWEaT_ ʔgfgTgʔf'gʔ Tgbgʔ Xe'j beʔf'gdʔ ʔbTi bWgʔ Tgf[begʔbʔ ʔaZ'fUl ʔaV_hWaZ Ubʔgʔ [bj ʔTaWj [I ʔb_ʔ XT
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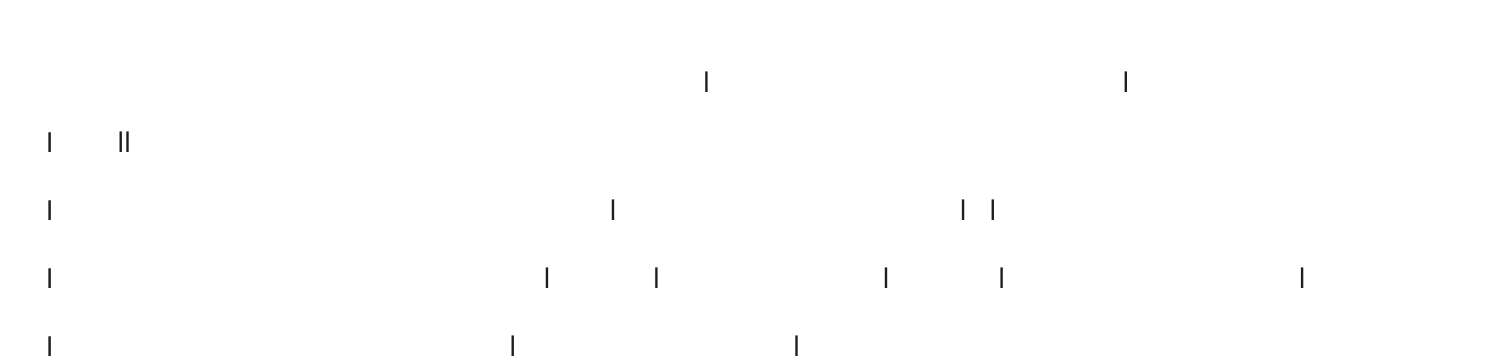
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aXi XeTeZhXf'gʔ Tgʔgʔ XfX'j beʔf Wba'gʔfXe' X'gʔ Xe'agʔaVWVchecbfX'byWVfVeUʔaZ' [bj ʔb_ʔ XTʔ beT_ ʔZbbW_ʔX!
ETgʔ Xeʔgʔ X'gXkgV_Tʔ f'gʔ Tgʔj beʔf'byʔ beT_c[\bfbc[I gʔ TgWba'gʔaV_hVW Ubʔgʔ [bj ʔTaWj [I ʔb_ʔ UXʔ beT_TeX'abg
hfXh_ʔb'eXTWʔef'j [b'Wba'gʔT_eXTW'j Tagʔb_UXʔ beT_!6[bWX'6 ʔf ʔaVbeeXVg'G[ʔf ʔfa'gʔgʔ X'bi XeT_fghVgheX!G[X'gXkg
aXi XeWVfVhffXf'gʔ X' ʔf'gʔb' ʔbYʔ beT_c[\bfbc[I TgT_ZTaWgWbXfa'gʔcebcbfXTal ʔb'cW'Ybe'Yhegʔ Xe'eXfXTev[!6[bWX'7
ʔf ʔaVbeeXVg'G[ʔf ʔfa'gʔgʔ X'bi XeT_fghVgheX!G[X'gXkgaXi XeWVfVhffXf'j [W[ʔbYgʔ X'gʔ bj beʔf ʔfʔ beX'j WX_ ʔXTW

DhXfgba'7\VEVh_g -@XWWhʔ

Fj Zhi ʔc°9*. %ŋ%Ų'

6hhZhbb Zci	I Zhi	9db Vʔ	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔ[i ʔcYʔHig Xij gʔ	I ZniʔHig Xij gʔʔcY Ej gedhZ	

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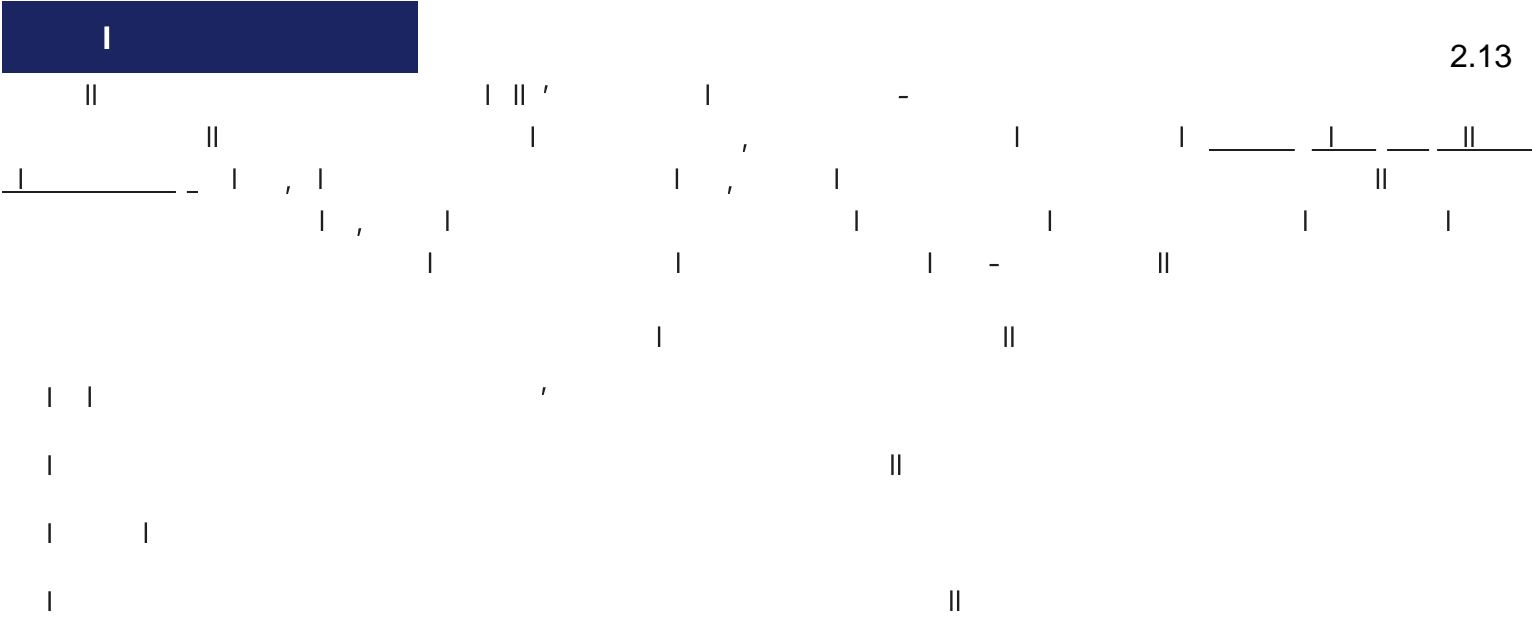
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6[bWX'4 ʔf ʔaVbeeXVg'4 ʔg bhZ[ʔg X'Ef gfXagXaVX'ʔaVWTgXf ʔg Tg'aWhfgeT_TVgi ʔg ʔf ʔYXa Tffh` XWg[Te j \W\XZ'a ʔg XVTfX'byg ʔf ʔi XeZfghW\XWU_hX'UhggXel I ʔg X'gXkg` Xagba f'aXg XeTa Tffh` cgba TUbhg ʔf ʔcXVXf abeTal V[T_XaZX'gb fhV[Ta Tffh` cgba! 6[bWX'6 ʔf ʔaVbeeXVgUXVThfX'g X'gXkg` Xagba f'ba ʔbaX'fghW -g X ʔfhei XI !?4W\gbaT_fghVXf TeX'abg` XagbaXW'a ʔg X'gXkg'6[bWX'7 ʔf ʔaVbeeXVgUXVThfX'aXg Xe ʔg X'haWKe_aXW cbegba ʔabeTal ʔg Xe'cbegba ʔYg X'gXkgcebi W\ T W\Ea ʔba ʔbeTal ʔYg X'gXe f hfXW'a ʔg X'gXkgf TeZh` Xag

DhXfgba '7\VEVh_g -@XWWh`

Fj Zhi ʔdc°9) - *** , +(

6hhZhbb Zci	I Zhi	9db Vʔc	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔ[i ʔcYʔHig Xij gʔ	I ZniʔHig Xij gʔʔcY Ej gedhZ	



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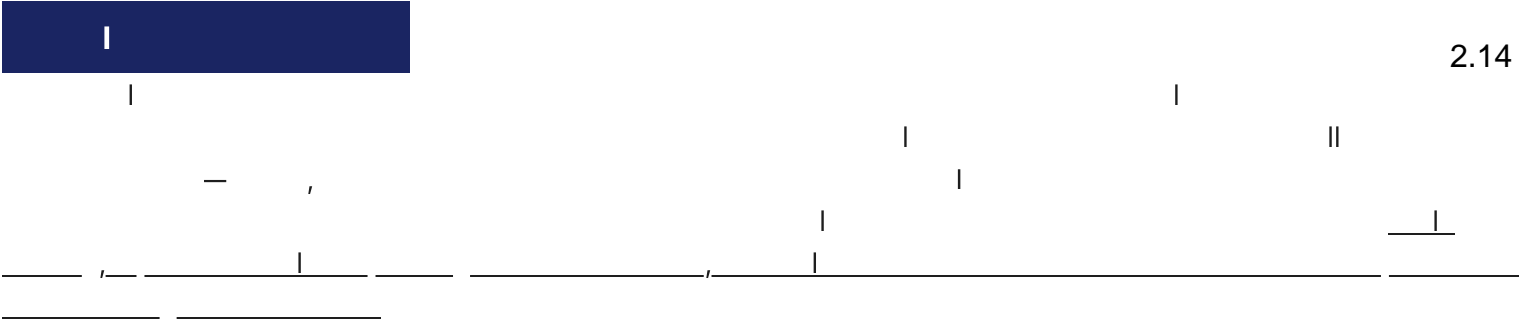
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¼ X'fgbbWbhgʔfb<_bb^XW beX'V_bfX_] 'Tg[\ !%G[Xa'g[X'eXfgbyg[X'gKkgVWfVeUXf' \ ʔ' ʔa'WkgT\!N

6[bWX'4 ʔf'ʔaVbeeXVg'G[ʔf'WbXfa'g'f'gTg'g'g[X'YhaVgba'byg[X'haWKe_aXWfXagKaVX!'G[X'ceXi ʔbhf'fXagKaVX'UTf\WT_] fTI f-¼ Xj Tf'fg_\fgTaWbaZ'ʔa'g[X' W\WX'bYg[X'VbggTZX!%gWbXfa'g'ʔaV_hVW'TaI W'fVe'cgba'byg[X'V[TeTVgXe' \ ʔfX'Y!
N6[bWX'5 ʔf'ʔaVbeeXVg'G[ʔf'WbXfa'g'f'gTg'g'g[X'YhaVgba'byg[X'haWKe_aXWfXagKaVX!'G[X'Yb_bj ʔaZ'fXagKaVXf'W'fVeUXg[X'V[TeTVgXe'Zabgg[X'fXggaZ!N6[bWX'6 ʔf'ʔaVbeeXVg'G[ʔf'WbXfa'g'f'gTg'g'g[X'YhaVgba'byg[X'haWKe_aXWfXagKaVX!'G[X'haWKe_aXWfXagKaVX'UTf\WT_] ʔTI f-¼ X'fgbbWbhgʔfb<_bb^XW beX'V_bfX_] 'Tg[\ !%G[X'ceXi ʔbhf'fXagKaVX'UTf\WT_] fTI f-¼ Xj Tf'fg_\fgTaWbaZ'ʔa'g[X' W\WX'bYg[X'VbggTZX!%G[XeXf'abVbagTfgUXg XXa'g[XfX'g b'fXagKaVXf!N

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Fj Zhi ʔc°9Z, ') , , ++

6hhZhbb Zci	I Zhi	9db Vʔ	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔʔi ʔcYʔHig Xij gʔ	I ZniʔHig Xij gʔʔcY Ej gedhZ	



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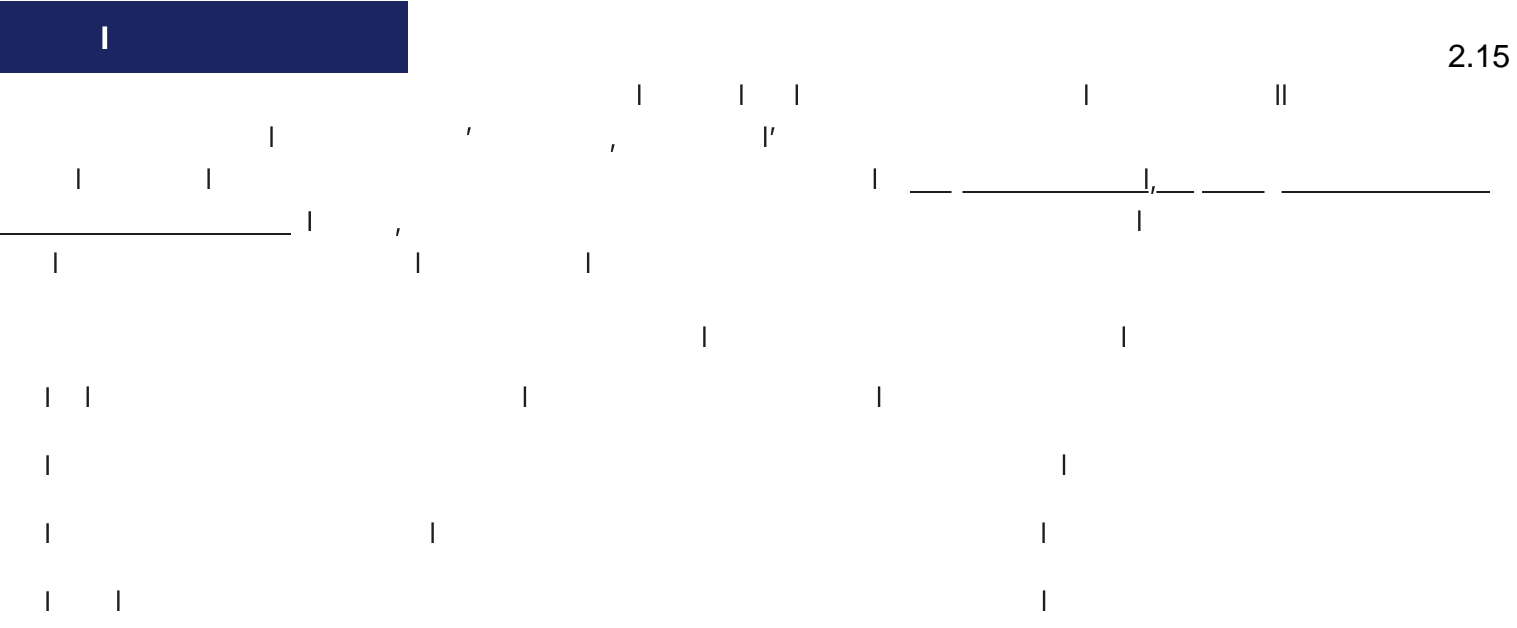
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6[b\WX'4 ʔf ʔa VbeeXVg ʔG[X'haVKe_ʔaXWcbegɓa VbXfa ʔgVb ʔg ʔf! ʔcTeTf ʔgXf TeX'ba ʔ VVfVeUXWTf ʔg X ʔ XV[Taʔf ʔg ʔg VbXf ʔg X'geTafYXeeʔaZʔabg ʔg X'fcXVXf ʔg TgZVi Xf beʔeXVXi Xf ʔg XZXaXf! 6[b\WX'5 ʔf ʔa VbeeXVg ʔG[X'haVKe_ʔaXWcbegɓa VbXfa ʔgVb ʔg ʔf! ʔc[X'gXkgɓaXi XeVWfVhffXf j [ʔV[ʔZXaXf TeX ʔ beX_ʔ^X ʔg ʔUX'geTafYXeeXW 6[b\WX'6 ʔf ʔa VbeeXVg ʔG[X'haVKe_ʔaXWcbegɓa VbXfa ʔgVb ʔg ʔf! ʔc[X'gXkgɓaXi XeVWfVhffXf ʔi bj ʔi beʔnbagT_ZXaX'geTafYXeʔbVWhef T ʔ baZ ʔa i XegXUeTgXf!

DhXfgɓa ʔ7\VEVh_g -@XVWh`

Fj Zhi ʔc°9°- Vx++[- .

6hhZhbb Zci	I Zhi	9db Vʔ	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔi ʔcYʔHig Xij gʔ	I ZniʔHig Xij gʔ ʔcY Ej gedhZ	



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6[bWX'7 ʔf ʔg X'UXfgTafj Xe'UXVThfX'gʔ bfgTWWheTgK_ ʔWfVeUXf [bj ʔg X'haWKe_aXWcbegba ʔhaVgbaf ʔa ʔg X'gKkg Tf Tj [b_XI'G[X'Eefgg b'fXagXaVXf ʔfgTU_ʔf[ʔ'aTgheT_c[Xab` Xaba-ʔg XeX'ʔf T'eW[aXff bYc_Tag_ʔX ʔbhaWa ʔg X 4gTVT` T'7XfXegWkf c'gK'g X[TeWfb_ʔg Tg` T^Xf ʔgV[T_XaZ'aZ ʔbefXXWf ʔb ZXe` ʔaTgK!G[X'aXkgfXagXaVXZj [W[VbagTʔaf ʔg X'haWKe_aXWcbegba ZbWXef T'cbgXagT_Xkc_TaTgba ʔbe'g X'c[Xab` Xaba- bVT_UeWf WZ ZebhaWaXfg Xkcbf'aZ f'XXWf ʔb` b'f gheXTaW TgXeT_f ʔa ʔg X'fb_aXVffTel ʔbeZXe` ʔaTgba!G[X'_TfgfXagXaVXfh` ʔ TevXf T fghW ʔg TgVb` cTeXWg X'Yeg_XaXff bY` bhaWf bYWegVhZ hc UI UeWf ʔb` bhaWf ʔg Tgj XeX'haWf gheUXWg b'fhccbeg ʔg X'Xkc_TaTgba ʔa ʔg X'haWKe_aXWcbegba!G[hfZg X'haWKe_aXWcbegba ʔ T'a_ ʔhaVgbaf ʔb Xkc_T'a [bj ʔXegT'a UeWf ceb` bgKfXXWZXe` ʔaTgba ʔa ʔg X'4gTVT` T'7XfXegfb\!

6[bWX'4 ʔf ʔaVbeeXVgUXVThfX'gʔ X'haWKe_aXWcbegba WbXfa gTWWXff ʔg X'gpcWbYg X'fb_ʔf ʔghZ[ʔehfgbeʔg ʔbe` Tgba!`afgXTWZg X'gKkgX_TUbeTgKf ba ʔg X'WXT ʔg Tg_bVT_UeWf ʔg TgUh_WZebhaWaXfg ʔ TI [X_c f'XXWf ZXe` ʔaTgX ʔa ʔg X[TeWfb_!f6[bWX'5 ʔf ʔaVbeeXVgUXVThfX'gʔ X'haWKe_aXWcbegba WkfVeUXf [bj ʔb` X'UeWf ʔ TI fhccbegfXXW ZXe` ʔaTgba ʔa 4gTVT` T'7XfXegfb\UhgWbXfa gWkfVeUX[bj ʔg X'fXXWf TeX Wkcbf gKWagb ʔg X'fb_UX ʔbeX ZXe` ʔaTgba UXZaf!f6[bWX'6 ʔf ʔaVbeeXVgUXVThfX'aXgʔ Xe'g X'haWKe_aXWcbegba ʔbe'g X'gKkgTf Tj [b_X'WwagE Xf T'eXTfba ʔg TgT'cTegVh_TeUeWfcXVXf ʔ TI V[bbX'g ʔb WZ ZebhaWaXfg ʔa ʔg X'4gTVT` T'7XfXegfb\!

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Fj Zhi ^dc°9°WY' . +&&

6hhZhnb Zci	I Zhi	9db V'c	H' 'aa	9^ Xj an
H6l	GZW'c\ 'VcY'L g'f'c\	8g/[i 'VcY'Hig Xij g'Z	I Zn'n'Hig Xij g'Z 'VcY Ej gedhZ	

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6beeXVg4afj Xe'5

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6[bWX'5'f'g' X'UXfgTafj Xd'G[X'gKkgUXZ'af'Ul' f'gTgaZT'cebU_X' j' Vg' 'eXfXTeV['ba'g' X'f'gTghf'bY6[bVgTj' j' b' Xa'Va'g' X'\$)##fTaW\$*##f-j' e'ggXa'ce\ Tel'fbheVXf'haVWkXfg' Tg'g' X'cbj Xe'g' Xl' [TW'a'g' X'e'geTWg'baT'_eb_Xf!'G[Xa'g' ceXfXag'baX['f'gbeTa'f'fb_hg'ba-'_bb^a'Z'g'b'beT'_geTWg'baTaWTeV[Xb_bZWt'_EaWaZf'Ybe` beX'af'Z[g'a'g'b'g' XfX'eb_Xf!

6[bWX'4 'f 'aVbeeXVg'G['f 'fa'g'g' X'bi XeT__f'ghVgheX!'G[X'g'KgaXi XeFTI f'g' TgeXfXTeV['f[bh_WTi bWj] e'g'Xa'ce' T
f'bh'eVXf'Z]hf'g'g' TgeXfXTeV['f[bh_WT_f'b'hfX'beT__geTWg'ba TaWTeV[Xb_bZ'WT_f'g'Xf Tf f'bh'eVXf!'6[bWX'6 'f 'aVbeeXVg
G['f 'fa'g'g' X'bi XeT__f'ghVgheX!'G[X'g'KgaXi Xe` Xa'g'ba'f'g' XTW'Ta'g'Z'Xf'bY'h'f'a'Z'j e'g'Xa'ce' Td' f'bh'eVXf!'6[bWX'7
'f 'aVbeeXVg'G['f 'fa'g'g' X'bi XeT__f'ghVgheX!'G[X'g'KgaXi XeFTI f'g' Tg'g' X'f'g'g'h'f'bY'6[bVgT] 'j b` Xa'W'h'e'a'Z'g' X'\$)##f
TaW\$*##f'f'g'b'bV[T_Xa'Z'a'Z'g'b'eXfXTeV[!4aW'g'W'bX'f'a'g` Xa'g'ba Ta' b'g' Xe'g'bc'W'f'g'b'eXfXTeV['a'f'g'KTW

DhXfgNba`7\ËVh_g-@XVWh`

Fj Zhi ʔc°9°[+(*' W(

6hhZhbb Zci	I Zhi	9db Vʔ	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ ʔcYʔL gʔʔc\	8gʔ[i ʔcYʔHig Xij gʔ	I ZniʔHig Xij gʔʔcY Ej gedhZ	

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6[bWX'4 ʔf'g[X'UXfgTafj Xd'G[X'gXkgf'gTeg'Ul ʔagbWhVʔaZ T'Vb` ʔ ba'i Vxj T` baZ TeV[TXb_bZV'g' TUbhg'g[X'aXXWbe
Ta X_gX'V_Tff'g' WexVg_TeZXzfVT_X'XaZ'aXXe'aZ'ceb]XVgf!G[XaZgVWfVhffXf'g[X'WfVbi Xd' bYT_TeZXV'TaT_` bfg_ʔ^X_]
Uh_gUl T'fbVXg j' g[bhgTa X_gX'V_TffZj [W[V[T_XaZXf'g[X'Eefgi Vxj !

6[bWX'5 ʔf ʔaVbeeXVg'4_g[bhZ['g[X'gXkgVWfVhffXf VTɔUba VTgaZ Tf Ta TeV[TXb_bZVT_` Xg[bWZgWbXfa'gVb` cTeX'g
g'TaI 'bg[XeT_gXeaTgi X` Xg[bWf!6[bWX'6 ʔf ʔaVbeeXVg'G[X'fghW WbXfa'geXfb_i XTaI ʔbageTWWgɓafŋ|eTg[XeZg
ʔagbWhVXf T'VbageTWWgɓa g'b'g[X'baXi Vxj 'ceXfXagXWTgg[X'UXZ'a'aZ'bYg[X'gXkg'6[bWX'7 ʔf ʔaVbeeXVg'G[X'gXkg
aXi Xe'WXagE'Xf TaI ZTcf ʔa'fVXagE'VeXfXTev[!

DhXfgɓa ʔ7\ŲVh_g -@XVWh`

Fj Zhi ṽc°ṽ°&% %ṽ+,

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H6l	GZW°c\ VcY°L gṽ°c\	8gṽ[i VcY°Hig Xij gṽ	I Zni°Hig Xij gṽ°VcY Ej gedhZ	

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I dYVn°Xdb edhZgHXdii°?deac°h°b V°cān°XZāVgṽiZY°[dg] ṽ°XViX] nḡṽi°b Z°e°ZXZh° B Veā°AZV[°GV\ VcY° I] Z°: ciZgV°cZg#
=dl ZkZg°WṽdkZgd° c°\] ṽ°āhh°[Vb dj h°l dg h°āhiZcZgh°l ṽ°b ṽ°h°i] Z°[j aḡVc°Z°d[°?deac°h°Xgṽi°k°n°#, dg°chiVcXZ!] ṽ°l Váo
EāVhVci°B db Zcih° VcY°] ṽ°deZgṽ^{**I gZb dch°**}Vh° ṽ°j aṽV°ZcY°gṽi°b Z°VcY°Xā/hhXVāb j h°X°#] ZhZ°b VhiZge°ZXZh°YZhZgkZ°Vh
b j X] ṽ°[Vb Z°Vh°?deac°h°W\Zhi°] ṽ°h°#

L] X] X] d°XZ°VZhi°hiViZh°i] Z°b V°c°ej gedhZ°d[i] Z°iZni°4

6#l d°YZhXgVZ°i] Z°h°b ṽ°gṽ°Zh°VcY°Y°[Zg°cXZh°VZil ZZc°gṽi°b Z°b j h°X°VcY°deZgṽ

7#l d°Vg°j Z°i] Vi°b dg°ViiZci°ṽc°h°] dj ṽ°VZ°\°kZc°id°?deac°h°āhhZg° cdl c°l dg h°

8#l d°ZcXdj gṽ\Z°b j h°X°ādkZgh°id°āhiZc°id°b j h°X°Vh°b Vcn°Y°[Zg°ci°Xdb edhZgh

9#l d°Zneā\°c°] dl °?deac°āVgcZY°id°Xdb edhZ°VcY°eZgṽdgb ḡṽi°b Z°b j h°X°

ṽ°&% %ṽ+ , ṽ°chl Zg

8dgṽXi°6chl Zg°7

GVṽ°ṽcVā

8] d°XZ°7°ṽ°i] Z°VZhi°Vchl ZgVZXVj hZ°ṽ°VZhi°hiViZh°i] Z°b V°c°ej gedhZ°d[i] Z°iZni°!] X] ṽ°ṽid°b V° Z°V°XVhZ°[dgṽ] Z°b edgVcXZ
d[°HXdii°?deac°h°āhh°[Vb dj h°l dg h°#] Z°iZni°VZ°c°h°Vh°ciḡYj X°c°?deac°h°b dhi°edej ṽ°gṽ dg h°VcY°i] Zc°\dZh°dc°id°VhhZg
i] Vi°\V°c°c°\ V°[j ṽ°j cYZgh°VcY°c°\d[°?deac°h°Xgṽi°k°n°gṽfj ḡṽh°V°XdchYZgṽi°ṽc°d[°] ṽ°āhhZg° cdl c°e°ZXZh°Vh°l Za°#] Z°iZni°
XdcXā YZh°Vh°X] VgṽXiZgb°c°\°i] Z°āhhZg° cdl c°l dg h°EāVhVci°B db Zcih° VcY°^{**I gZb dch°**}Vh°b VhiZge°ZXZh°i] Vi°YZhZgkZ°id
VZ°[Vb dj h°#] ZhZ°YZiV°ṽ°c°Y°XViZ°i] Vi°i] Z°iZni°h°b V°c°ej gedhZ°ṽid°Vg°j Z°i] Vi°b dg°ViiZci°ṽc°h°] dj ṽ°VZ°\°kZc°id°?deac°h°
āhhZg° cdl c°l dg h°#

8] d°XZ°6°ṽ°c°XdḡṽXi°#6ā] dj \] i] Z°iZni°Y°hXj hhZh°hdb Z°d[i] Z°ḡṽi°b Z°b j h°X°VcY°Vc°deZgṽi] Vi°?deac°Xdb edhZY!°ṽ°YdZh
cdi°Xdb eVgṽi] Z°il d°ṽneZh°d[°b j h°X°c°\ZcZgṽ/°ṽ°chiZVY°!i] Z°iZni°Vg°j Zh°i] Vi°?deac°h°āhhZg° cdl c°l dg h°!°cXā Y°c°\] ṽ°deZgṽ!
YZhZgkZ°Vh°b j X] ViiZci°ṽc°Vh°] ṽ°b dg°[Vb dj hḡṽi°b Z°e°ZXZh°g°XZ°kZ°#8] d°XZ°8°ṽ°c°XdḡṽXi VZXVj hZ°i] Z°iZni°Y°hXj hhZh°dcan
?deac°h°b j h°X°VcY°YdZh°cdi°Vh°°b j h°X°ādkZgh°id°āhiZc°id°V°kVgZin°d[°Xdb edhZgh°ṽ°chiZVY°!i] Z°iZni°ZcXdj gṽ\Zh°āhiZcZgh°id
eVn°ViiZci°ṽc°id°?deac°h°āhhZg° cdl c°l dg h°c°dgYgṽid°\V°c°V°[j ṽ°j cYZgh°VcY°c°\d[°] ṽ°Xgṽi°k°n°#8] d°XZ°9°ṽ°c°XdḡṽXi
VZXVj hZ°i] Z°iZni°YdZh°cdi°Y°hXj hh°] dl °?deac°āVgcZY°id°Xdb edhZ°VcY°eZgṽdgb ḡṽi°b Z°b j h°X°#ṽ°chiZVY°!i] Z°iZni°[dXj hZh°dc
?deac°h°āhh°[Vb dj h°l dg h°VcY°b V° Zh°V°XVhZ°[dgṽ] Z°ḡṽb edgVcXZ°#

Fj Zhi ṽc°9^ Xj ǎn/B ZY°j°b

Fj Zhi ^dc°9°Y. Z* *' +-

6hhZhnb Zci	I Zhi	9db Vc	H`aa	9^ Xj an
H6l	GZW'c\ VcY'L g1'c\	8g/i VcY'Hig Xij gZ	I Zni'Hig Xij gZ VcY Ej gedhZ	

9/γ. Z^{∗∗} + -

2.19

l | Z[~~dadl~~ c\iZnm'hVYVeIZY[gob Adj hZ: g'gX] h" % %cdkZaI **JZCA**]iL **WxbVc**#Adj h'E eZhIdcZ'hXdaZXi c\ h^cVij g'h
[dgV'eZi↑dc'[gob '[Zadl' bZb Wg'h'd[i] Z'l j gā'Z'bj ciVc'7VcY'd[8] 'eeZl V'dc'i] Z'igW'h'g'hZgVi dc'c'Cdgi] 9V diV#

Adj h'e eZhidxZiZcYZY[i] Z'eZi f'dc'a' Z'V\vgZc#=Z' Zei'f'i f] j' b' Vi'vai'b Zh#e'idl c! j' h'ZnZh'h] VgZcZYi j Zc j Z cdi XZY V'igVWab Zb WZgl j d j VYc i nZi h'AcZY#L j ZgkZgi Zn i Zg' Vi i] Z'Vh'e j b e! b ZgXvci e' RZcZg/ahidgZRVi =Zcgnh'PBV[ABdc i] Z'gdVY!dgdj ih'YZ i] Z'Xac'X'VcY' dhe fVa Adj h'XdgZgZY i] Zb #x i] Zn i Zg' i V f'c' [dgV VVWid WZ Vdg! j] ZY j VkZ i] Zb h'Ac#x i] Zn i Zg' a j \] c' \ ' f i] Zn i Zg' Vg j c' \ #x i] Zn i Zg' i V c' \ V X' e j db Z' [gdb hX] dda i] Zn h'AcZY#

$$\} \quad ' \quad \% \quad \% \quad \text{WhAdj} \quad \text{hZ} : \text{gYgX}]$$

L] X] X] d'XZ'WZhi'hiViZh'i] Z'b V'c'ej gedhZ'd[i] ZiZm4

6#l d'hj \ \Zhi'i] Vi hdb Z'igWab Zb WZgh'gZ[j hZ'id'h^c'i] Z'eZi↑dc WZXVj hZ'i] Zn'Yha^ Z'Adj h'E eZhidcZ

7#l d'h] dl i] Vi`Vii↑j YZh`idl VgY`i] Z`eZi↑↑dc' l ↑] c`i] Z`igWwXdb b j c↑n`X] Vc\Z`dkZgi`b Z`

8#l d'YZb dchigViZ'i] Vi'b dhi'igWab Zb WZghVgZ'Zci] j hVhi X'Wdj i'h^c^c\i] Z'eZi↑dc

9#l d'edgJv'n'Adj h'E eZhIdcZh'higdc\Xdb b ↑b Zci'id'XdaZXi c\ h^cVij gZh[dgi] Z'eZi↑dc

9/γ. Z**' +- °chl Zg

8dggZXi °6chl Zg/9

GVl ^dcVaz

8] d'XZ'9'h'i] Z'WZhi'Vchl' Zg'WZXVj hZ'↑b dhi'VXXj g'ViZan'hiViZh'i] ZiZm'h'b V'c'ej gedhZ# [] ZiZm'c'Y'XViZh'i] Vi'Adj' h'Vá' Vnh
] WY] h'eZi'↑dc'↑' ↑]]'b'!Vh' ZY'ZkZgndcZ'] Z'ZcXdj ciZg'Y'id'h'Λc'↑'↑'i] Zn'] WYci'Vag'WYn'VcY'ahih'hZkZg'aXdb' XVa
 X'g'j b hiVcXZh'c'↑'] X']]Z'b'Λ] i'ign'id'Λ'Zi'hdb' ZdcZ'id'h'Λc'# [] j h'i]]Z'b' V'c'ej gedhZ'd[i] ZiZm'h'id'Λ'aj hig'ViZ'Adj' h'h
 YZY'XViZY'[dX] h'dc'Λ'Zii'c'Λ'ezdeZ'id'h'Λc'i] Z'eZi'↑dc'#

8] d'XZ'6'h'cXdggZXi#6a] dj \] Z'iZm'hj \ \Zhih'i] Vi'Adj h'1 Vh'\ \gzh'h'KZ'c'hZZ' c' h'AcVij g'h[dgi] Z'eZi'†dc [dg ZnVb eZ!h'Vn'c' \] Vi'] Z'XdcgZg'Y' eZdeZ' cdi] c' \ c'i] Z'iZm'VYg'zhZh'] dl 'i] dhZ'eZdeZ' [ZZaidl Vg'Adj h' a'Zi VadcZ'i] Vi i] ZnVg'g' [j h'c' \] h'g'fj Zhi#8] d'XZ'7'h'cXdggZXi VZXVj hZ'i'di] Zgi] Vc'edg'g'n'c' \ Adj h'h'Xdb b †b Zci' i'd \ Vi] Zgc' \ h'AcVij g'h'i] Z'iZm'YdZhc'i Y'hXj hh'Xdb b j c'†n'b Zb VZg'h' Vii'†j YZh'i'dl Vg'Adj h'dgi] Z'eZi'†dc#8] d'XZ'8'h'cXdggZXi VZXVj hZ'i] Z'iZm'cZkZgb Zci'†ch'i] Z'Vii'†j YZh'd[i] Z'eZdeZ'Adj h'VeegdVX] Zh'i'dl Vg'i] Z'eZi'†dc!V'ii] Z'iZm'YdZh'c'YXViZ i] Vi'] Z'XdcgZg'Y' egdlheZXi KZ'h'AcVidgZh'h'iglc' \ an'hj \ \Zhi'c' \ i] Vi'i] Z'g'Zci] j h'Vhb '1 Vh'cZ†] ZgcZZZY'cdgXdc'hYZg'Y#

Fj Zhi[^]dc°9^ Xj an/B ZY↑ b

Fj Zhi ʔc°9°+&, V- V&%

6hhZhhb Zci	I Zhi	9db Vʔ	H ʔaa	9^ Xj ʔn
H6l	GZWʔc\ VcYʔL gʔʔc\	8gʔʔi VcYʔHig Xij gʔ	I ZniʔHig Xij gʔ VcY Ej gedhZ	

9ʔ+&, V- V&%

2.20

KZgnʔafiāʔʔhˆ cdl cʔWʔj iʔi ZʔgʔāʔcdXij gʔVāʔchZXihʔhʔ Xj Vhʔb di] hʔeāʔnʔcˆ dl ZgedāʔcViʔcʔVZXVj hZʔʔʔhʔY^ Xj āʔidʔb dcʔdg
ʔchZXihʔViʔc^] i#l dʔVYYgʔzhhiʔ hʔegʔWʔb !VʔiZVb ʔdʔhʔXʔciʔhihʔ hZYʔiʔb ZʔāʔehZʔXVb ZgʔhʔidʔgʔXdgʔedāʔcVidgkʔhʔhʔidʔgʔY
XadkZgʔVāʔYVnʔVcYʔc^] i#l] ZʔgʔXdgʔʔc\hʔhʔ dl ZYʔiʔ Viʔl] ʔʔb dhiʔedāʔcVidgkʔhʔhʔ ZgʔVhʔVyb WʔVZZhʔdcZʔiʔ ʔYʔdʔkʔhʔhʔ Zgʔ
Vhʔb di] h#6YYʔʔcVāʔˆ dl Zghʔiʔ Viʔl ZgʔkʔhʔZYVhʔVdiʔ ʔb di] hʔVcYʔVZZhʔegʔYj XZYʔb dgʔhʔZZYhʔiʔ Vcˆ dl Zghʔiʔ Viʔl Zgʔdcan
kʔhʔZYVhʔVZZh#

L] Xj Xj dʔXZʔVZhiʔhiViZhʔiʔ Zʔʔj cXiʔcʔdʔiʔ Zʔj cYZgʔcZYʔhZciZcXZ4t

6#l dʔYZhXgʔVZʔVc VeegʔdVXj VʔiZVb ʔdʔhʔXʔciʔhihʔ hZYʔidʔhij YnedāʔcVidght

7#l dʔfj ZhiʔcʔVʔXāʔʔb ʔhʔXʔciʔhihʔb Vʔ ZʔWʔj iʔedāʔcVidght

8#l dʔZneāʔʔcʔl] nʔb di] hʔegʔ[ZggʔZYʔXadkZgʔidʔdi] Zgʔ dl Zgh

9#l dʔVccdj cXZʔVcʔj cZneZXiZYʔgʔhZVgʔXj ˆ cYʔc\ Wʔj iʔgʔZYʔXadkZgt

9ʔ+&, V- V&%6chl Zg

8dgʔXiʔ6chl Zgʔ6

GViʔcʔVāʔ

8] dʔXZʔ6ʔhʔiʔ ZʔVZhiʔVchl ZgʔVZXVj hZʔʔʔb dhiʔVXXj gʔViZanʔYZhXgʔVZhʔiʔ Zʔʔj cXiʔcʔdʔiʔ Zʔj cYZgʔcZYʔhZciZcXZ#l] ZʔhZciZcXZ
ʔcYʔXViZhʔiʔ ViʔhʔXʔciʔhihʔ hZYʔiʔb ZʔāʔehZʔeʔ didʔdʔgʔeʔ nʔYj gʔc\ Vdiʔ VYnʔVcYʔc^] iʔidʔYZiZXiʔedāʔcVidghʔkʔhʔʔc\ gʔZYʔXadkZgʔ
l] Zgʔ[dgʔʔiʔ Zʔj cYZgʔcZYʔhZciZcXZʔ Vhʔiʔ Zʔʔj cXiʔcʔdʔ[ʔYZhXgʔWc\ Vc VeegʔdVXj ʔhʔXʔciʔhihʔ hZYʔʔcʔiʔ ZʔedāʔcVidghij Yn
YʔhXj hhZYʔʔcʔiʔ ZiZniʔ#

8] dʔXZʔ7ʔhʔcʔXdggʔXiʔVZXVj hZʔiʔ Zʔj cYZgʔcZYʔhZciZcXZʔYʔhXj hhZhʔZfj ʔeb Zciʔiʔ ZʔhʔXʔciʔhihʔ hZYʔidʔXdcYj Xiʔiʔ Zʔghij YrtʔVcY
i] ZiZniʔegʔdkʔYZhʔcdiʔ ʔc\ idʔhʔ \\\Zhiʔiʔ ZhZʔZāʔb Zcihʔdʔiʔ ZʔgʔZneZgb ZciVāʔYZhʔcʔXdj āʔ!Vhʔiʔ Zb hZāʔZhʔfʔj ZhiʔcʔXāʔʔb h
gʔhj āʔc\ [gʔlb iʔ Zʔhij Yn#8] dʔXZʔ8ʔhʔcʔXdggʔXiʔVZXVj hZʔcdiʔ ʔc\ ʔcʔZʔʔ Zgʔiʔ Zʔj cYZgʔcZYʔhZciZcXZʔdgʔiʔ Zʔgʔhiʔdʔiʔ ZiZniʔ
VYYgʔzhZhʔl] Ziʔ Zgb diʔ hʔ VkZʔVegʔ[ZgʔcXZʔ[dggʔZYʔXadkZgdgʔVcnʔdiʔ Zgʔ dl Zgh#8] dʔXZʔ9ʔhʔcʔXdggʔXiʔ#6āʔ dj \] iʔ Z
hZciZcXZhʔiʔ Viʔ[dādʔl iʔ Zʔj cYZgʔcZYʔhZciZcXZʔYʔhXj hhʔgʔhZVgʔXj ˆ cYʔc\hʔcdiʔ ʔc\ ʔcʔiʔ ZiZniʔhʔ \\\Zhihʔiʔ Viʔiʔ ZhZʔ cYʔc\h
l Zgʔʔj cZneZXiZYʔ#B dgʔdkZgʔiʔ Zʔj cYZgʔcZYʔhZciZcXZʔYZhXgʔVZhʔeVgʔdʔiʔ ZʔhʔXʔciʔhihʔ ZneZgb ZciVāʔYZhʔcʔYVnʔVcYʔc^] i
iʔb ZʔāʔehZʔeʔ didʔdʔgʔeʔ nʔ!ʔcdiʔ Vˆ cYʔc\ dʔiʔ ZʔhʔXʔciʔhihʔhij Yn#

Fj Zhiʔcʔ9^ Xj ʔnʔ/B ZYʔʔb