

: 7 '9b Y f[]Y '7 c hhVi g 'ZY]Y fh '(. &! G]Y [']a HY ghgd]Y ` [Y [Y b '5 `h[`]Y b]W_Y °

: 7 '9bYf[]Y '7chhVi g 'hf]ZZh 'Ua '("'; *) '] b 'Y]b Ya 'HYghgd]Y` Ui Z'JG; '5`h[`]Yb]W_Y"'5bdZ]ZZ'i a '%+.\$\$ 'I \f']b '8]ggYbWXYb"



7chhVi gž8 Yi hgWX`Ub X`!`5a `: fY]hU[bUW.a]hhU[ž`XYa `("`*\`]
&\$&) ž`ZUb X`Ui Z`XYf`GdcfhUb`U[Y`XYg`GJ`8]ggYbWXYb`Y]b
JcfVYfY]hi b[ggd]Y``XYg`: 7`9bYf[]Y`7chhVi g`[Y[Yb`X]Y`JG;
5`h[`]Yb]W_Y`ghUhh"`Fi bX`%"&\$\$`Zi » VU``VY[Y]ghYfhY`Ni gWXUi Yf
k UfYb`[Y_ca a Ybži a `X]Y`HYUa g`VY]`]\fYb``YhnhYb
JcfVYfY]hi b[Yb`ZØf`X]Y`VYj cfghY\YbXY`GU]gcb`ni `i bhYfghØhnYb"
5bdZ]ZZ'k Uf`i a `%+.\$\$`I \fž`i bX`XUg`5Wh]cb!DU_Yh``]Y» `b]WXh``Ub[Y

 $8]Y `6Y[Y[bib[`VY[Ubb `a]h `Y]b Ya `YbYf[]g WX Yb `Df Ygg]b[`XYf ; Ugh[YVYf \check{z}'ib X `X]Y `Yfgh Yb `VY]X Yb `7 \ Ub WYb `[Y\ Of h Yb `XYf `J G; " 5 ``Yf X]b[g'_cbbh Y `5 Vk Y\ fa Ubb `? YVY `]b `XYf `b Yibh Yb `A]bih YY]b Yb `[YZ \A\f`]WX Yb `5b[f]ZZ'j cb `F ca Uf `c' < Ufi ``U'_`Af Yb" πXYf

nk \grave{O} `ZhYb'A]bi hY'j YfdUgghY'HYX'HUhhYfa i gW\'XUg'; Y\Ài gY'bUW\ Y]bYf'dfÀn]gYb'< YfY]b[UVY'j cb'< Ybfm'F cf]['_bUdd"'5| Y` 6cf[a Ubb'\UhhY']b'XYf'%("'A]bi hY'YfbYi h'X]Y'A \grave{O} [`]W_Y]hž'X]Y : \emptyset \fi b[' $\mathbb{Z}\emptyset$ f'5'h[`]Yb]\\\\\\\\\Y'ni 'Yfn]Y`Ybž'Xc\\\\'X]Y'5Vk Y\f'j cb 7 ch\\\\\ g'\]Y`h'ghUbX"

GdUbbi b['V]g'ni f' < U`VnY]h

± XYf" ' "A]bi hY [Yf]Yh 7chhVi g XUbb XcW]b F ØW_ghUb X. '9]b : fY]ghc > XYf J G; '`Ub XYhY bUW Y]bYa 'A Ui YfV`cW_'VY]'? Uddž XYf XUg \$.% 'Yfn]Y hY "8 cW '7 chhVi g '`]Y > 'g]W XUj cb 'b]W hYbha i h][Yb"?i fn 'j cf XYf 'DUi gY '_Ua 'XYf '5i g[`Y]W . '9f]_'HU``]['hfUZ bUW 'Y]bYf : `Ub_Y 'j cb '< U fi ``U ']b XYf'') "'A]bi hY 'ni a '% %"'8 Ug '9f[YVb]g V`]YV 'V]g 'ni f' < U`VnY]hdUi qY i bj YfÀb XYfh"

BUWW XYa 'GY]hYbk YWW gY`k YWW gY`hY XYf': 7'9bYf[]Y'_ca d`Yhh Xi fWX $\check{z}'V$]g'Ui Z'Hcf\ØhYf'9`]Ug'6Yh_Y"'8]YgY'Zf]gWW Yb'? fÀZhY nY][hYb'gcZcfh'K]f_i b["'7Ub'A ci ghZU``Y[hY']b'XYf')' "'A]bi hY'Ui Z \$\implies\$ gh]b'6i h`Yf'ni f@W_\(\bar{z}'XYf'XUg'\&.\%'Yfn]Y`hY"'Bi f'nk Y]'A]bi hYb gd\hYf'Yf\\O\hY'H\Yc'C[V]X]'bUWW'Y]bYa '5VdfU``Yf'Ui Z'' .\%\(\bar{z}'') b'XYf') - "'A]bi hY\(\bar{z}'') gWW\b\OfhY'9f]_'9b[Y`\UfXh'XUg DU_Yh'a]h'XYa'(.\%'')

8 c W 'X]Y 'Dufh]Y 'k Uf'bc W 'b]W hYbhgW]YXYb" + XYf', \$"A]bi hY gcf[hY'HØfd]hn'ZØf'XYb'(.&!5bgW i gghfYZZYf'XYf'JG; ž'bUW XYa Y]b'A]ggj YfghÀbXb]g']b'XYf'7chhVi gYf'5Vk Y\f']b'XYa 'HfYZZYf a ØbXYhY"'9b[Y`\UfXh'\UhhY']b'XYf'GW i ggd\UgY'bcW 'nk Y] k Y]hYfY'A Ò[`]W _Y]hYbž'i a 'XYb'J cfgdfi b['Ui gni VUi Ybž'XcW 'XUg FYgi `hUh'V`]YV'V]g'ni a 'GW i ggd Z]ZZYf\U`hYb"

9bYf[]Y 7chhVigUiZXYfG]Y[YgghfU»Y

 $A]h`X]YgYa ``(.\&!G]Y[``ZY]YfhY`XYf`: 7``9bYf[]Y``VYfY]hg`XYb`j]YfhYb G]Y[`]a ``j]YfhYb``HYghgd]Y````9]b`j]Y`j YfgdfYW\YbXYg``NY]W\Yb`j cf XYa ``GhUfh`]b`X]Y`bYi Y``GU]gcbž`X]Y``Ua ``&"`cXYf`' "'`5i [i gh`[Y[Yb XYb`'\%"': 7``GUUfVf\@W_Yb``VY[]bbh''`Nk]g\W\YbnY]h`]W\`]gh``Ua GUa ghU[ž`XYb`) "'`$\`]ž`Y]b``k Y]hYfYg``HYghgd]Y``[Y[Yb``HG; BYi ghfY`]hn`]b`<YfnVYf[``Ui Z`XYa ``Dfc[fUa a "': \@f`X]Y``7chhVi gYf$

: Ubg`k]fX`Yg`gdUbbYbX`V`Y]VYbž`k]Y`g]W\`XUg`HYUa `]b`XYb _ca a YbXYb`K cW\Yb`df\AgYbh]YfYb`k]fX"

K Yf XUg ; YgW Y\Yb b]W h`]j Y j cf Cfh j YfZc`[Yb _cbbhY ž _cbbhY g]W] y ghfYUa _Ui Z XYa Mci Hi VY!? UbU` _9bYf[]Y!HJ __]bZcfa]YfYb" 8]Y @Ui g]hnYf Fi bXgW Ui _Vch ni gÀhn`]W Y]bYb @Jj Yh]W_Yf ni f DUfh]Y Ub ž i a _U`Y : i » VU``]bhYfYgg]YfhYb Ui Z XYa _@Ui ZYbXYb ni _\U`hYb ž Ui W k Ybb X]Y _ VYfhfU[i b[]a _HJ _ZY\`hY" B UW V]g\Yf][Yb _6Y[Y[bi b[Yb nk]gW Yb _VY]XYb _HYUa g`\Uh _7 chhVi g`j cb _%\$ _5i ZY]bUbXYfhfYZZYb) [Yk cbbYb ž k À\fYb X _5`h[`]Yb]W_Y (_A U` g]Y[fY]W k Uf i b X Y]b Gd]Y`i bYbhgW]YXYb _YbXYhY"

8 YhU]`g	
Cfh	7 chhVigž8YihgWX`UbX
EiY``Yb	• k k k "ZWYbYf[]Y"XY
	• k k k "gk d"XY

6Ygi WXYb G]Y i bg Ui Z. b!U["bYh