

5`nUffc'8ÒbYfk cf`X']b':]bUbnbch. =bgc`j Ybn'i bX'BYi ghUfh'ZØf'; YfU3

5`nUffc'8ÒbYfk cf`X'Ui g'; YfU'a Y`XYh'⊕gc`j Ybn'Ubž'hfchn a cXYfbghYf'DfcXi _h]cb"; YgW\ÀZhgZØ\fYf'd`Ubh'6Yhf]YV 7cfhni ZØ\fYb"



HY][hUgW\Yb'jc``Uihca Uh]gW\'Zcfa Ybž'ZØ``Ybž'j YfgW\`]Y» Yb'ibX VUW_Yb"'BUW\'XYa '6UW_Yb'Zc`[Yb'9bhXUadZib[ž'?Ø\`ib[ž DfØZib[ž'; Yk]W\hg_cbhfc``Y'ibX'JYfdUW_ib[ž'VYjcf'X]Y'DfcXi_hY]b'XYb'<UbXY``[Y`Ub[Yb"'

8]Y'DfcV'Ya Yž'X]Y'ni f'\bgc'j Ybn'Z\\hata\fiybz'g]bX'j]Y'Z\hata\h]["

J Yfn\(hata\)[Yfi b[Yb'VY]'XYf'\@]YZYfi b['j cb'gdYn]U']g]YfhYb'A UgW\]bYb

i bX'Y]b'UV[Ygdfi b[YbYf'\bj Yghcf'\UVYb'XUg'I bhYfbY\a Yb']b

GW\(k\)]Yf][_Y]hYb'[YVfUW\h''Ni XYa 'V']YVYb'X]Y'JYf_Ui ZgnU\`Yb
\]bhYf'XYb'9fk Ufhi b[Yb'ni f\(hata\)W_\z'k Ug'b]W\h'bi f'XYb'< YfghY``Yfz

gcbXYfb'Ui W\(\far_b\) fc\(\gamma\)Y'\colongy YhhYb'\k]Y'FYk Y'i bX'9XY_U\z'\X]Y'XUg

DfcXi _h'j YfhfY]VYb\z'j cf'< YfUi g\z'\colongy XYfi b[Yb'ghY``h''8Yf'DfY]g'\z'\df

XUg'VY']YVhY'DfcXi _h' 8\(hata\)bV\fVUW_\z'\Y]b'[Y\z'\df'\HY][a Ub\hY\`a]h

<\(\hat{A}\)bW\Yb\z'\GU\`Uh'i bX'?\bcV\`Ui W\\gc\(\gamma\)Y\z'\]Y[\h'VY]'*\z'- '\9i fc''

:]bUbn]Y``Y'GWXk]Yf][_Y]hYb'i bX A Uf_hYbhk]W_`i b[

8]Y'5`nUffc'8 ObYfk cf'X'; a V<']gh'b]Wh'U``Y]b'a]h']\fYb
Z]bUbn]Y``Yb'DfcV`Ya Yb"'=a '\\\\f'&\\$&('\UVYb']b'8 Yi hgW\`UbX
]bg[YgUa h'&\%'', '\&' | bhYfbY\a Yb'=bgc'j Ybn'Ub[Ya Y`XYhz'k Ug']a
J Yf[`Y]W\'ni '\&\\$&' 'Y]bYb'5bgh]Y['i a '\&\\z'('i 'VYXYi hYh''8]YgY
VYgcf[b]gYffY[YbXYb'NU\`Yb'gd]Y[Y'b'Y]bY'k UW\\gYbXY
k]fhgW\Uzh`]W\Y' | bg]W\Yf\Y]h'k]XYf"'J]Y`Y'XYf'VYhfcZZYbYb
I bhYfbY\a Yb'\UhhYb']b'XYb'`YhnhYb'\\J\fYb'a]h'?f]gYb'ni
_\Aa dZYb'i bX'gU\Yb'g]W\'gW\`]Y\\`]W\'[Ynk i b[Ybz'XUg'< UbXhi W\
ni 'k YfZYb"']Za !Vcbb"cf['k Y]gh'XUfUi Z'\]bz'XUgg'i bhYf'XYb
=\bgc'j YbnYb'Ui W\'nU\`fY]W\Y'GY'Vghgh\\bX][Y'ni 'Z]bXYb'g]bXz'X]Y
Ui Z[fi bX'j Yf[Ub[YbYf'Z]bUbn]Y``Yf'GW\k]Yf][_Y]hYb'Y]bYb'5bhfU[
ghY``Yb'a i qghYb"

<m[]YbYibX'DfcXi_heiU`]hÀh']a : c_i g

Hfchn:XYf: **pgc`j Ybn:]gh'X]Y:DfcXi _h]cb:]b:XYf:\cW.a cXYfbYb: UVf]__;]b:j c``Ya ; Ub[Y":8]Y:[YgUa hY:DfcXi _h]cbg\U``Y:]gh'a]h
9XY`ghU\``Ui g[Y_`Y]XYhži bX:<m[]YbY:\Uh'\c\Y:Df]cf]hÀh":9g'k]fX
hÀ[`]WX:V]g:ni (&:HcbbYb:GU`Uh'j YfUfVY]hYhži bX:XUg:Ub[YVchYbY
Gcfh]a Ybh'i a ZUggh'XfY]; YgW\a UW_gf]W\hi b[Yb":?f]h]_Yb:]b
gcn]U`Yb'A YX]Yb'VYn]Y\Yb'g]W\gck c\``Ui Z'XYb'DfY]g'U`g'Ui W\'Ui Z
XYb; YgW\a UW_'XYg'5i ZVUW_!8 ObYfgž'XcW\'8Ya]f_ØfY_']gh
ØVYfnYi [h'j cb'XYf'Ei U`]hÀh'gY]bYf'DfcXi _hY"'GY]bY:5a V]h]cbYb
g]bX:[fc>"'@Ub[Zf]gh]['a OW\hY'Yf'%\$\$"\$\$\$8 ObYf'hA[`]W\
j Yf_Ui ZYb'i bX'Y]bY'ZYghY'9hUV`]Yfi b[']a 'A Uf_h'YffY]W\Yb"

8 Yf: U```j cb`5`nUffc`8 ÒbYfk cf`X`nY][hžk]Y`gW\bY```Yg`]b`XYf
@YVYbga]hhY`VfUbW\Y`[Y\Yb`_Ubb"`\D`Y]bYf`NY]hž']b`XYf'j]Y`Y
I bhYfbY\a Yb`a]h`À\b`]W\Yb`GW\k]Yf][_Y]hYb`_Àa dZYbž'V`Y]Vh`ni
\c\ZZYbž'XUgg`XYf`6Yhf]YV`Y]bY`K YbXi b[`ni a `Dcg]h]j Yb`bY\a Yb
_Ubb"

8 YhU]`g	
Cfh	?cfVi»Ybž'8YihgWX`UbX
EiY``Yb	• k k k "a Xf"XY
	• k k k "fi \f&("XY
	• k k k "]Za !Vcbb"cf[

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