

A U[]gWXY'BUWXh']b'6Yf`]b.'A U`U_cZZ?ck U`g_]'VY[Y]ghYfh'a]h';]bgVYf["



D\]`\Ufacb]Y`6Yf`]bž'8Yi hgWX`UbX`! 5a '8]YbghU[UVYbXž'XYa("'\implib]'\&\\\) ž'ZUbX']b`XYf'D\]`\Ufacb]Y`6Yf`]b`Y]b

VYa Yf_Ybgk YfhYg'?cbnYfh'ghUhhž'XUg'X]Y`Ni gW\Ui Yf'a]h'Y]bYf
Y]bn][Ufh][Yb`A]gW\ib[`Ui g'Aig]_`ibX`DcYg]Y`VY[Y]ghYfhY"'I bhYf

XYa 'H]hY` Gcb[g'K]h\`K cfXg 'hfUhYb`X]Y`Aig]_Yf'AU`U_cZZ

?ck U`g_]ž'\{ cf'@Yj]hž'\\\ UbbU'Gi a a Yf'i bX'7\]``m'; cbnU`Yg'Ui Z''

8]YgYf'5VYbX'k Uf'X]Y`Y]bn][Y`8Yi hgW\`UbX!GhUh]cb'Ui Z']\fYf
Hci fbYYž'X]Y'j cf'U``Ya 'ZØf']\fY'i b_cbj Ybh]cbY``Y

Ni gUa a YbghY``i b['j cb'?`Uj]YfghØW_Yb'i bX'`mf]gW\Yb'HYI hYb

VY_Ubbh']qh"

 $A\ U`U_cZZ?ck\ U`g_]\check{z}'Y]b\ 'XYi\ hgWk!Ua\ Yf]_Ub]gWk!]fUb]gWkYf'? \emptyset bgh`Yf\check{z}$

ghUbX`XUVY]`]a 'A]hhY`di b_h`XYf`5i ZZØ\fi b["'A]h`gY]bYa
Ui ZZÀ``][Yb`Ci hZ]hžY]bYf`Df]bn!<Y]bf]W\!A ØhnYž'a cXYf]YfhY`Yf`XUg
?cbnYfh`i bX`Yf`Ài hYfhY`gY]bY` \(\pi\gd)]fUh]cb`Xi fW\`FcVYfh
GW\i a Ubbg`BUW\hghØW_"'6Y[`Y]hYh`k i fXY`?ck U`g_]`j cb`XYb
UbXYfYb`D]Ub]ghYbž'X]Y`Y]bnY`b`Ui ZhfUhYbž'k Ug`XYf`8UfV]Yhi b[
Y]bY`ni gÀhn`]W\`]bh]a Y`5ha cgd\ÀfY`j Yf`]Y\"'8]Y`a i g]_U`]gW\Y
; fi bX`U[Y`a UW\hYb`K Yf_Y`j cb`VYXYi hYbXYb`?ca dcb]ghYb`k]Y
: fÅXÅf]W7\cd]bž'7`Ui XY`8YVi ggm'i bX`A Ui f]WY`FUj Y``Ui g"

$A i g]_U^gWXY^J]Y^ZU^h^ibX^DcYq]Y$

?ck U`g_]`[UV`XYb`j cb`XYa `Ua Yf]_Ub]gW\Yb`8]W\hYf`5``Yb ;]bgVYf['j YfZUgghYb`HYI hYb`gY]bY`Gh]a a Yž`X]Y`Yf`dUggYbX`ni XYb`?`Uj]YfghØW_Yb`UXUdh]YfhY"`8]YgY`?ca V]bUh]cb`ZØ\fhY`nk Uf`ni [Ya]gW\hYb`FYU_h]cbYbž`XU`Y]b][Y`?f]h]_Yf`XYf`A Y]bi b[`k UfYbž XUgg`X]Y`?`Uj]Yfk Yf_Y`c\bY`K cfhY`gW\ÒbYf`ni f`; Y`hi b[[Y_ca a Yb`k ÀfYb"`8YbbcW\`[UV`Yg`Ui W\`<Ò\Ydi b_hYž`k]Y`X]Y Gc`cY]b`U[Yb`j cb` \mathcal{L} \UbbU'Gi a a Yf`i bX`\{ cf'@Yj]hž`X]Y`XUg Di V`]_i a 'a]h`]\fYf`j]fhi cgYb`Gd]Y`k Y]gY`]b`GhUi bYb`j YfgYhnhYb"`

8 Y b '_fÒbYbXYb '5 VgW\`i gg'V]`XYhY '? ck U`g_]g'VYk Y[YbXY 8 UfV]Yhi b['j cb': `m'a Y'hc'h\Y'A ccb ž'k cVY]'XUg'VY[Y]ghYfhY Di V`]_i a '`Ui hghUf_'Udd`Ui X]YfhY"'8]Y'J]Y`gY]h][_Y]h'i bX GdUbbi b[gVÒ[Yb'XYg'5 VYbXg'nY][hYb'X]Y'\c\Y'_Øbgh`Yf]gW\Y E i U`]hÀh'XYf'VYhY]`][hYb'A i g]_Yf'i bX'gcf[hYb'ZØf'Y]bYb i bj Yf[Ygg`]W\Yb'5 VYbX']b'XYf'6Yf`]bYf'D\]`\Ufa cb]Y"'

K Y]hYfY < O\Ydi b_hY XYg ? `Uj]Yf : YghYg</pre>

 $U^{y}V_{g}Y_{f}^{i} b_{Y}^{i} b_{Y}^{i} b_{Y}^{i} b_{X}^{i} b_{$

±g[YgUa h'Vch'XUg'?cbnYfh']b'6Yf`]b'Y]bY]bY]bXf]b[`]WXYg'9f`YVb]gž XUg'X]Y'; fYbnYb'nk]gWXYb'Aig]_'i bX'DcYg]Y'j YfgWXk]a a Yb'`]Y» "Gck c\`']b'XYf'D\]`\Ufa cb]Y'U`g'Ui WX'VY]a '?`Uj]Yf': Ygh']b'@ nYfb ki fXYb'X]Y'Ni gWXUi Yf'NYi [Yb'Y]bYg'_Øbgh`Yf]gWXYb'5i ghUi gWXgž XYf'X]Y'GYY`Y'VYfØ\fhY'i bX'ni a 'BUWXXYb_Yb'UbfY[hY''

8 UgʻNi gUa a Ybgd]Y``Ui gʻYf[fY]ZYbXYfʻA i g]_ʻi bXʻVYXYi hYbXYf @mf]_ʻ`ÀgghʻUi Zʻk Y]hYfYʻ]bbcj Uh]j Yʻ?cbnYfhYʻ]bʻXYfʻNi _i bZhʻ\cZZYbž X]YʻX]Yʻ?i bghZcfa ʻXYgʻ?`Uj]YfgʻØVYfʻ; YbfY[fYbnYbʻ\]bUi gʻbYi XYZ]b]YfYb"

: \emptyset f'Y]bYb'XYhU]``]YfhYb'6Yf]W\h' \emptyset VYf'XUg'?cbnYfh']b'6Yf`]b VYgi W\Yb'G]Y'V]hhY'F 66&("

8YhU]`g	
Cfh	D\]`\Ufa cb]Y^6Yf`]bž'8Yi hgW\`UbX
EiY``Yb	• k k k "fVV&("XY
	• k k k "′Unnh]a Y"gk]gg
	a U[Un]b"_`Ugg]_"Wca

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