

>cgYZ'?fUi g. '5`Ufa [`cW_Yb'`Ài hYb'ZØf 8 Yi hgWX`UbXg'6]`Xi b[ggmghYa °



9]b'nYbhfU`Yg'5b`]Y[Yb'gY]bYg'JcfhfU[g'k Uf'X]Y'U`Ufa]YfYbXYG]hi Uh]cb'j cb'?]bXYfb'i bX': Ua]`]Yb"'H\YaYb'k]Y'X]Y'5fai h'Ub

?]bXYfbž'X]Y'5i ZgdU'hi b['XYf': Ua]']Y'i bX'Y]bY'j cf\YffgWXYbXY [Y]gh][Y'I bgY'VghghÀbX][_Y]h'ghUbXYb']a ': c_i g'' @Ui h'?fUi g']gh'X]Y ?cbgi a a YbhU']hÀhž'[YdUUfh'a]h'I bXi `XgUa _Y]h'i bX'XYf'Gi WXY bUWX '9fgUhnfY'][]cbYbž'Y]b'5bnY]WXYb'XUZØfž'XUgg'\]Yf'Y]b][Yg']a $5f[Yb'']Y[h'' K]f'XØfZYb'X]Y'9bhk]W_i' b[Yb']b'Dc']h]_ž'AYX]Yb'i bX 6]'Xi b['b]WXh'Y]bZUWX'][bcf]YfYb ž'ZcfXYfhY'XYf'Y\Ya U'][Y'@Y\fYf jY\Ya Ybhž'k À\fYbX'Yf'X]Y'Ni \ÔfYf'Y]bXf]b[']WX'i a ']\fY 5i Za Yf_gUa _Y]h'VUh'' OBcfX_i f]YfQVYf]WXhYhž'XUgg'Yf'Y]bY Xf]b[YbXY'?i `hi f'XYg'<]b\ÔfYbg'i bX'<]bgY\Ybg'Y]bZcfXYfhYž]bYYgcbXYfY']b'XYf'[Y[Ybk Àfh][Yb'8YVUhhY'i a '; YbXYfZfU[Yb']b XYb'AYX]Yb''$

8 Ug⁻6]`Xi b[ggmghYa ⁻i bhYf⁻6 YgWXi gg

*gYZ??fUi g'k Ufbh'b]Wh'bi f'j cf'gcn]U`Yb'A]ggghAbXYbž'gcbXYfb
Yf\YVh'Ui Wk'gWkk YfY'J cfk ØfZY'[Y[Yb'XUg'XYi hgWkY
6]`Xi b[ggmghYa "' K]f'\UVYb'i bgYf'6]`Xi b[ggmghYa 'gY`Vgh'_Udi hh
[Ya UWkh ž'gc'gY]b'Y]bXf]b[`]WkYf'5ddY``"'9f'_f]h]g]YfhY
]bgVYgcbXYfY'X]Y'gc'[YbUbbhY'; YZÀ``][_Y]hgdAXU[c[]_ ž'X]Y'Yf
U'g'Y]bY'XYf'I fgUWkYb'ZØf'XUg'g]b_YbXY'6]`Xi b[gb]j YUi
]XYbh]Z]n]Yfh" @Y\fd`AbY'k YfXYb'ni @YYfd`AbYb ž'ghY``hY'Yf'ZYgh
i bX'VY`Yi WkhYhž'XUgg'X]Y'5V]hi fbchYb'nk Uf'[Ygh]Y[Yb'g]bXž'X]Yg
YXcWk'b]Wkh'i bVYX]b[h'Ui Z'VYggYfY'@Y]ghi b[Yb'XYf'GWkØ'Yf
ni fØW_ni ZØ\fYb']gh'"-\D'j]Y`Yb': A``Yb'gY]Yb'X]Y'DfØZ b[Yb'k Yb][Yf
Ubgdfi Wkgj c```[Yk cfXYb"'OZf"XYQ\YVh'\Yfj cfž'XUgg'?fUi g'Ui Wk
XYb'\c\Yb'A][fUh]cbgUbhY]`']b'GWki 'Yb'U`g'ni gAhn`]WkY
<YfUi gZcfXYfi b['Ubg]Y\hž'X]Y'XUg'VYghY\YbXY'GmghYa
ØVYfZcfXYfy"</pre>

9]bY'gY]bYf'nYbhfU`Yb': cfXYfi b[Yb'VYn]Y\h'g]W\'Ui Z'X]Y
ZfØ\nY]h][Y'9]bZØ\fi b['j cb'GdfUW\ghUbXghYghg'j cf'XYf
9]bgW\i`i b['gck]Y'X]Y'6]`Xi b['j cb'GdfUW\`Yfb_`UggYb'ZØf'?]bXYf
a]h'I bhYfghØhni b[gVYXUfZ''=a '<]bV`]W_'Ui Z'X]Y'8][]hU`]g]Yfi b[
Ài »YfhY'?fUi g'6YXYb_Ybž'XUgg'X]YgY'j cf'U``Ya 'XYf'+!!+bXi ghf]Y
ni [i hY_ca a Yž'k À\fYbX'GW\Ø`Yf'Y]bY'; YbYfUh]cb'a]h' Ncca!
9fZU\fi b[Yb '\YfUbk UW\gYb"'9f'd`ÀX]Yfh'XUZØfž'X][]hU`Y'A YX]Yb']b
GW\i`Yb'Yfgh'UV'XYf', "'cXYf'-"'?`UggY'Y]bni ZØ\fYb'i bX'g]Y\h'X]Y
Fc``Y'XYf': Ua]`]Y']b'XYf'9fn]Y\i b['U`q'YgqYbn]Y``Ubž'i a 'XYb

9]b I a Vfi W]b XYf 6] Xi b[gXYVUhhY

?fUi gž:XYf:ØVYf:' \$ '\\ Y 'U`g 'Df\\ g \ XY b 'XYg '@Y\ fYf Y fVUb Xg a U \ [YV`]W\]b 'X]Y 'XYi hgW\ Y '6] \ Xi b [gdc`]h]_ 'Y]b [Y[f]ZZYb`\ Uh\\ d`Ubh'bi b\\ E'bUW\ 'XYf'6i b\ XYghU[gk U\ `Y]bY 'Gh]Zhi b ['ZØf 6] \ Xi b [gdc`]h]_ 'ni '[f\\ B\ XYb''9f'\ Uh'g]W\ ']b 'XYf' J Yf[Ub[Yb\Y]h ghYhg'_f]h]gW\ 'a]h 'XYb' H\ Ya Yb 'XYf' XYi hgW\ Yb '6] \ Xi b [gdc`]h]_ Ui gY]b Ub XYf[YgYmhi b\ X'[]`h'U`g'a Uf_UbhY':][i f']b 'XYf' 8 YVUhhY'' GY]b 'B UW\ Zc`[Yf\\ Z'<Y]bn! DYhYf' A\ Y]X]b [Yf\\ Z'k]fX'j cfUi gg]W\ h`]W\ j\ Yfgi W\ Yb\\ Z'XYb' J\ YfVUb\ X'VfY]hYf'Ui Zni ghY``Yb'i b\ X'X]Y\ Ni gUa a\ YbUfVY]h'a]h'j\ YfgW\]Y\ XYbYb'dc`]h]gW\ Yb'F]W\ hi b[Yb'ni Z\)fxYfb''' OG\ ØXXYi hgW\ YQ\ YVh'\ Yfj cf\\ Z'XUgg'? fUi g']b 'gY]bYb'a\ Y\ f\ U`g'\%\\$''\A\ f`]W\ Yb' J\ cfhf\\ A[Yb'i bYfa \ ØX`]W\ 'X]Y'\ A\ Ab[Y`'XYg\ GW\ i `gmghYa\ g'UbdfUb[Yfh'i b\ X'XUni 'Ui Zfi Zh\\ Z'X]Y'\ 5bgdf\ ØW\ Y']a\ 6]`Xi\ b [ggmghYa\ k\]Y\ XYf'ni 'Yf\ O\Yb''

 $8] Y' < YfUi gZcfXYfi b [Yb'g]bX'b]WXh'ni 'i bhYfgWX ÀhnYbž'i bX'Yg gWXY]bhž'U`g'k ÀfY' <math>\approx$ gYZ'? fUi g 'F ØW_V`]W_'Ui Z'X]Y'j Yf[Ub[YbYb $\sharp J \ Y' \ a \ Y \ f'U \ g'bi f'Y]bY' dYfgÒb`]WXY' 6YhfUWXhi b[/'Yg']gh'Y]b Y]bXf]b[`]WXYf'5ddY``'Ub'U``Y' 6YhY]`][hYbž'X]Y'K Y]WXYb'ZØf'Y]bY dcg]h]j Y'9bhk]W_`i b['XYg'6]`Xi b[ggmghYa g']b'8Yi hgWX`UbX'bYi 'ni ghY``Yb"$

8 YhU]`g	
Cfh	IW_YfaUf_ž8YihgW\`UbX
EiY``Yb	k k k "bcfX_i f]Yf"XY
	• kkk"giYXXYihgW\Y"XY
	• k k k "Zf"XY

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'b U[!VfUb X Yb Vi f["X Y