

5bUghUW]U gU[h 5i Zhf]hh]b : fY]Vi f[k Y[Yb 9f_fUb_i b[_i fnZf]gh][UV

 $5bUghUW]UgU[hUig'[YgibX\Y]h`]WXYb'; fØbXYb'5i Zhf]hhY']b: fY]Vif['ibX'AU``cfWU'UV''BYiY'HYfa]bY'kYfXYb'[YgiWXh'']$

; Ygi bX\Y]h`]W\Y`F \emptyset W_gW\`À[Y`Z \emptyset f`5bUghUW]U. 9]b`6`]W_`Ui Z`X]Y`5i gk]f_i b[Yb`Ui Z`: Ubg i bX`JYfUbghU`hi b[Yb

8]Y'd`Òhn`]WXYb'5VgU[Yb'jcb'?cbnYfhYb'XifWX'X]Y'UaYf]_Ub]gWXYGÀb[Yf]b'5bUghUW]U'f)) kk YfZYb'Y]b'GWX`U[`]WXh'UiZ'X]Y?cad`Yl]hÀh'XYg'@YVYbg'U`g'?Øbgh`Yf"'+b':fY]Vif[ž'kc'g]Y'Ua\Yih][Yb'5VYbX'VY]a'NY`h'Aig]_:Ygh]jU`'UiZhfYhYb'gc``hYž'_cbbhYg]Y'UiZ[fibX'[YgibX\Y]h`]WXYf'DfcV`YaY'b]WXh'YfgWXY]bYb"'8]YgYG]hiUh]cb']gh'b]WXh'bif'ZØf'X]Y'?Øbgh`Yf]b'gY`Vghž'gcbXYfb'UiWX'ZØfX]Y':Ubg'ibX'X]Y'JYfUbghU`hYfjcb'6YXYihib["

9]b i bYfk UfhYhYg 9bXY j cb 5i Zhf]hhYb

5bUghUW]U'[UV'VY_Ubbhž'XUgg']\f'ŸfnhYhYUa']\f'[YfUhYb'\Uhž'b]W\h
Ui Zni hfYhYb"'8]Yg'_Ua'ZØf'j]Y`Y': Ubgž'X]Y'g]W\'Ui Z'XYb'5i Zhf]hh
[YZfYi h'\UhhYbž'ØVYffUgW\YbX"'+\b']\fYf'A]hhY]`i b['Ui Z'XYf': Ygh]j U`!
K YVg]hY'Yf_`AfhY'g]Y.'~9g'hi h'a]f'gc'`Y]Xž'UVYf']W\'_Ubb'\Yi hY
5VYbX'b]W\h'Ui ZhfYhYb"'+\W\'\UhhY'a]W\'gc'Ui Z'XYb'5i Zhf]hh'[YZfYi h
i bX'\cZZYž'XUgg']W\'VU`X'k]YXYf_ca a Yb'_Ubb""

?cbnYfhUVgU[Yb'U`g'HY]`XYg'?Øbgh`Yf`YVYbg

8]Y'GÀb[Yf]b'_ØbX][hY'Ui W\'Ubž'XUgg'g]Y'Ua '8]YbghU['b]W\h'k]Y [Yd`Ubh'Ui Z'A U``cfWU'Ui ZhfYhYb'_ÒbbYž'i bX'a i gghY'YVYbZU``g]\fYb 5i Zhf]hh]b F cgYgž? UhU`cb]Yb Ž Ua '8 cbbYfghU['UVgU[Yb" 8]YgY 5 VgU[Yb 'g]b X 'Y]b '_`UfYf' <]bk Y]g X UfUi Zž X Ugg 'Ui W\ dfca]b Yb hY '? Øbgh Yf a]h [Ygi b X \ Y]h`]W\ Yb ' < Yf Ui g Zcf X Yfi b [Yb _\Aa d ZYb 'a ØggYb" 5 b UghUW]U 'gY`Vgh \ Uh]b 'X Yf 'J Yf [Ub [Yb \ Y]h VYfY]hg 'a]h 'Yfbgh\ UZhYb '9f_f Ub_i b [Ybž'k]Y '6fi gh_f Y Vgž'ni _\Aa d ZYb '[Y\ UVh"

9]b'NY]W\Yb'ZØf'X]Y'6YXYi hi b['j cb; Ygi bX\Y]h

8]Y 5VgU[Yb nY][Ybžk]Y k]Wkh][Yg]ghžX]Y Y][YbY; Ygi bX\Y]h UbYfghY GhY``Y ni gYhnYb"5bUghUW]Ug HYUa \Uh Ub[Y_ØbX][hž XUfUbni UfVY]hYbžbYi Y HYfa]bY ni Z]bXYb"~5`gc \U`hYh`V]hhY X]Y
5i[Yb c ZZYb ZØf BYi][_Y]hYb]b XYb b AWkghYb HU[Yb" B c Wka U`g 9bhgWki `X][ib[ibX]Wk \c ZZYžYi Wk 'U``Y VU`X ni gY\Yb"

8]Y'Fc``Y'XYf'JYfUbghU`hYf'i bX H]W_Yh]b\UVYf

 $: \varnothing f^*X]Y^*J^*YfUbghU^*hYf^*XYg^*NY^*h^*A^!g]_-: Ygh]j^*U^*g^*i^*bX^*UbXYfY^*9j^*Ybhg^*VYXYi^*hYh^*X]YgY^*9b^*hk^]W_^*i^*b[^*ni^*gA^*hn^*]W_Y^*< YfUi^*gZcfXYfi^*b[^*Yb''^5^*YH]W_Y^hg^*VY^U^*hYb^*YXcW_^]^*fY^;^*\@^*h][_Y]h^*k^*Ug^*Y]bY^*[Yk^]ggY^*G]W_Yf^Y]h^*Z\@f^*X]Y^*: Ubg^*VYXYi^*hYh^*Z^*Y^*g]W_^VYfY]hg^*Ui^*Z^*X]Y^*?cbnYfhY^[YZfYi^*h^*\UhhYb'']$

9]b '6`]W_ ']b 'X]Y 'Ni _i b Zh

 $5bUghUW]U\check{z}^*X]Y^*]b^*XYb^*\&\$\$Yf^*JJ^*fYb^*a]h^*<]hg^*k]Y^*\sim DU]X^*A m^*8i Yg^*i bX^*\sim G]W_*^*5bX^*H]fYX^*^*[fc*Y^*9fZc^*[Y^*ZY]YfhY\check{z}^*V^*Y]Vh^*]b^*XYf^2 ZZYbh^*]W_*_Y]h^*dfAgYbh^*^=\left\damagafY^*d^*Ohn^*]W_*Yb^*?cbnYfhUVgU[Yb^*Yf]bbYfbibg^*XUfUb\check{z}^*k]Y^*ghUf_*_*XYf^*8fi W_*_*Ui Z^*?Øbgh^*Yf^*gY]b^*__Ubb\check{z}^*]J^*fYJYfdZ^*]W_*hib[Yb^*hfchn^*[YgibX_Y]h^*)W_*Yf^*<YfUigZcfXYfib[YbkU_hibY_aYb^**@Yhnh^*]W_*]gh^*XYf^*FØW_JU^*h^*XYf^*:Ubg^*ibX^*X]YUh^*fghØhnib[XYf^*JYfUbghU^*hYf^*YbhgW_Y]XYbXZ^*ia_gc^*W_YgW_*k_]Yf][Yb^*NY]hYb^*ni^*OVYfk]bXYb"$

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