

9fZc`[fY]WXY'@, ?9L&'!, Vib['j YfnY]WXbYh

H]hY`. '9fZc`[fY]WXY'?f]qYba UbU[Ya YbhØVi b['@ ?9L&' ']b 6UXYb!K ØfhhYa VYf['I bhYfh]hY`. 7mVYfUb[f]ZZggnYbUf]c i bhYfn]Y\h'?f]qYba UbU[Ya Ybh'Y]bYa 'GhfYqqhYqh'6UXYb! K ØfhhYa VYf[ž'%&"'C_hcVYf'&\$&' / Ua d/, , &%%/'8Uq ?f]qYba UbU[Ya YbhkifXY'VibXYqkY]hY]bYf ia ZUb[fY]WXYb GhfYgghYgh!, Vib[ibhYfnc[Yb"6Y]XYf . Vi b[// Ua d/ , &&&/@ ?9L&' / Ua d/ , &&\$/k Uf XUq ⇒byba]b]ghYf]i a `]b 6UXYb!K ØfhhYa VYf['a U» [YV`]WX ZØf X]Y'JcfVYfY]hi b[ž'GhYi Yfi b['i bX'5i gk Yfhi b[| YfUbhk cfh`|WX "'8|Y', Vi b| ž'Ub'XYf'U``Y'%*'6| bXYg`ÀbXYf hY]`bU\a Ybž'ZUbX'ØVYf'Y]bYb'NY]hfUi a 'j cb'nk Y]'HU[Yb'ghUhh i bX 'g]a i `]Yfh'Y]bYb '7 mVYfUb[f]ZZ'Ui Z'FY[]Yfi b['i bX JYfk U`hi b[Yb"8Yf'ghY``jYfhfYhYbXY'A]b]ghYfdfÀg]XYbh'i bX ⇒bYba]b]ghYfž'H\ca Ug'GhfcV`ž'VYhcbhY'X]Y'FY`Yj Ubn'XYg _ VYbg^ZØf^XYb^9fbghZU``"^8]Y^_ Vi b['@_ ? 9L &' 'gY]^Y]bY^XYf [fÒ» hYb ', Vi b[Yb 'X]YgYf '5fh '[Yk YgYb 'i bX '\UVY '[YnY][hž $XUgg^{\circ}6UXYb!K \mathcal{O}fhhYa VYf[i bX X]Y UbXYfYb / Ua d \(Y^{\circ})d/$

H]hY`. '9fZc`[fY]WXY'?f]gYba UbU[Ya YbhØVi b['@, ?9L&' ']b'6UXYb! K ØfhhYa VYf[

I bhYfh]hY`. '7 mVYfUb[f]ZZggnYbUf]c'i bhYfn]Y\h'? f]gYba UbU[Ya Ybh Y]bYa 'GhfYgghYgh

6UXYb!K ØfhhYa VYf[ž'%&"'C_hcVYf'&\$&' ` '8Ug
?f]gYba UbU[Ya Ybh'k i fXY'Vi bXYgk Y]h'Y]bYf'i a ZUb[fY]WXYb
GhfYgghYgh!, Vi b['i bhYfnc[Yb"'6Y]'XYf', Vi b[' @, ?9L&' 'k Uf'XUg
♣bYba]b]ghYf]i a ']b'6UXYb!K ØfhhYa VYf['a U»[YV']WX'ZØf'X]Y
JcfVYfY]hi b[ž'GhYi Yfi b['i bX'5i gk Yfhi b['j YfUbhk cfh`]WX"'8]Y
, Vi b[ž'Ub'XYf'U``Y'%*'6i bXYg`ÀbXYf'hY]`bU\a Ybž'ZUbX'ØVYf'Y]bYb
NY]hfUi a 'j cb'nk Y]'HU[Yb'ghUhh'i bX'g]a i `]Yfh'Y]bYb'7mVYfUb[f]ZZ
Ui Z'FY[]Yfi b['i bX'JYfk U`hi b[Yb"

8 Yf 'ghY ``j YfhfYhYbXY 'A]b]ghYfdfÀg]XYbh'i bX '\dbYba]b]ghYfž
H\ca Ug 'GhfcV`ž'VYhcbhY 'X]Y 'F Y `Yj Ubn'XYg', VYbg 'ZØf'XYb
9fbghZU``" '8]Y', Vi b['@, ? 9L &' 'gY]'Y]bY 'XYf'[fÒ» hYb', Vi b[Yb
X]YgYf'5fh'[Yk YgYb'i bX'\UVY'[YnY][hž'XUgg '6UXYb!K ØfhhYa VYf[
i bX'X]Y 'UbXYfYb'@ÀbXYf'cdh]a U`'Ui Z'a Ò[`]W\Y'?f]gYbg]hi Uh]cbYb
j cfVYfY]hYh'gY]Yb" '8 Ug'\dbYba]b]ghYf]i a '_ccfX]b]YfhY 'XUVY]
gÀa h`]W\Y'5_h]j]hÀhYb' 'j cb'XYf'J cfVYfY]hi b['ØVYf'X]Y 'GhYi Yfi b[
V]g`\]b'ni f'8 i fW\ZØ\fi b['i bX'5 i gk Yfhi b["

8]Y, Vi b[@, ?9L&' \UhhY Y]bYb VYgcbXYfYb : c_i g'Ui Z'U_hi Y`Y < YfUi gZcfXYfi b[Yb']a '6YfY]WX 'XYf'7mVYfg]WXYf\Y]h" 8 UVY]
[Y`Ub['Yg'XYb 'VYhY]`][hYb'A]b]ghYf]Yb'i bX'J Yfk U`hi b[Ybž'X]Y
g]a i `]YfhYb'7mVYfUb[f]ZZY 'YfZc`[fY]WX 'ni 'VYk À`h][Yb"'A]b]ghYf
GhfcV`'VYhcbhY 'YXcWX ž'XUgg'X]Y': Y]b!5bU`mgY'XYf
, Vi b[gYf[YVb]ggY k Y]hYf\]b'j cb'[fc» Yf'6YXYi hi b['gY]ž'i a 'XUg
?f]gYba UbU[Ya Ybh'_cbh]bi]Yf`]WX 'ni 'j YfVYggYfb"' BUWX 'XYf
, Vi b[']gh'j cf'XYf', Vi b[ž'gc'XUg': Un]h'XYg'\deltabYba]b]ghYfg"

8]Y'VfY]hY'6YhY]`][ib['6UXYb!K ØfhhYa VYf[g'Ub'XYf', Vib[ibhYfghfY]Wh'X]Y'9fbgh\UZh][_Y]hž'a]h'XYf'XUg'H\Ya U
?f]gYba UbU[Ya Ybh'ibX'7mVYfg]W\Yf\Y]h'VY\UbXY`h'k]fX"'BYVYb
XYa 'GhUUhga]b]ghYf]ia'ibX'U``Yb'Y`Z':UW\a]b]ghYf]Yb'k UfYb'UiW\
X]Y'7mVYfg]W\Yf\Y]hgU[Ybhifž'X]Y'\H!8]Ybgh`Y]ghYf]b'XYg'@UbXYg
fb\H6K E'gck]Y'X]Y'FY[]Yfib[gdf\Ag]X]Yb':fY]Vif[\z'H0V]b[Yb'ibX
Ghihh[Ufh']b'ibhYfgW\]YX`]W\Yf'\DahYbg]h\Ah']bjc`j]Yfh"

8]Y'[YkcbbYbYb'9f_Ybbhb]ggY'Uig'XYf', Vib['X]YbYb'bib'XYfkY]hYfYb'Cdh]a]Yfib['XYg'?f]gYbaUbU[YaYbhg"'8Ug

=bbYba]b]ghYf]ia'jcb'6UXYb!KØfhhYaVYf['k]fX'X]Y'9f[YVb]ggY

gcf[ZÀ`h]['Ui gk YfhYb'i bX'XUfUi Z'Ui ZVUi YbX'A U» bU\a Yb Yf[fY]ZYbž'i a 'XUg'?f]gYba UbU[Ya Ybh'bcW\'_f]gYbZYghYf'ni a UW\Yb"

EiY``Y. '\bYba]b]ghYf]i a '6UXYb!K ØfhhYa VYf[ž'6i bXYgUa h'ZØf 6Yj Ò`_Yfi b[ggW\i hn'i bX'? UhUghfcd\Yb\]`ZY'f\6?\\Z'6i bXYgUa h'Z\Øf G]W\Yf\Y]h']b'XYf'\\DZcfa Uh]cbghYW\b]_'f\6G\\

8 YhU]`q

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