

GYWXg']bbcjUh]jY'9bhk ØfZY'ZØf'XUg HYa dY`\cZYf': Y`X'Ui g[YnY]WXbYh°

8 Yf]b hYfb Uh]cb U`Y = XYYbk YhhVYk YfV ni a "HYa dY`\c ZYf": Y`X]b '6 Yf`]b \ Uh gYW g]b b c j Uh]j Y '9 b hk ØfZY df Aa]Yfhz X]Y 'XYb 8]U`c[a]h XYf '6 Yj O`_Yfi b['ZOfXYfb i b X 'b UW \ U`h][Y @Ogi b[Yb 'ZØf ni _Øb Zh][Y '9 b hk]W_`i b[Yb 'V]YhYb"



HYa dY`\cZYf: Y`Xž·6Yf`]bž·8Yi hgW\`UbX`!·5a '&' "'⇒ b]'&\$&)
k Uf'Y]b`VYXYi hYbXYf`HU['ZØf`XUg`HYa dY`\cZYf': Y`X']b`6Yf`]bž`XU
X]Y`nk Y]hY`i bX``YhnhY`D\UgY`XYg`]bhYfbUh]cbU`Yb
⇒XYYbk YhhVYk YfVg`UV[YgW\`cggYb`k i fXY"'⇒ Y]bYa
Ui ZgW\`i ggfY]W\Yb`9bhgW\Y]Xi b[gdfcnYgg`_cbbhY`XUg
DfY]g[Yf]W\hž`VYghY\YbX`Ui g`ZØbZ'6Øf[Yfb`i bX`gYW\g
: UW\YI dYfhYbž`Ui g`&\$`Y]b[YfY]W\hYb`9bhk ØfZYb`gYW\g
\YfUi gfU[YbXY`⇒XYYb`Ui gk À\`Yb"'8]Yg`VYf]W\hYhX]Y`
GYbUhqj Yfk U`hi b['ZØf`GhUXhYbhk]W_`i b['i bX`K c\bYb"

8]Y`HU[ib[`XYg`DfY]g[Yf]W\hg`ZUbX`Ua`&\$"`ibX`&%"'⅓b]`ghUhhž kcVY]`XUg`N]Y``XYf`5igkU\``X]Y`DfÀa]Yfib['jcb'?cbnYdhYb'a]h

Dfàa]YfhY '9bhk ØfZY 'i bX'_ca a YbXY 'GWXf]hhY

 $8]YgYWkgUig[YnY]WkbYhYbgbhk \emptysetfZYia ZUggYb.$

- 6YghUbX'ghÀf_Ybž'J]Y`ZU`h'ZÒfXYfb 'GcaY'D`UWYGhiX]cž
 K 8 @UbXgWUdY'5fWX]hYWhifY' \DW
- 6i]`X`]h'; fYYb°'8Yf'DUf_'XYg'&%"'\\J\f\i\bXYfhg\'\V\n\'\UbXgW\UZhgUfW\]hY_hYb'\VYf`]b'[a\V<"
- GY]`n]Y\b ' '8 Y'Nk UfhY' < cbXž'; f]Y[Yf' < UfnYf'8j cfU_ @UbXgW\UZhgUfW\]hY_hYb'DUf; a V6"
- GhUXh`]W\hi b[': fUbn`FYgW_Y`@UbXgW\UZhgUfW\]hY_hi f
 a V<"
- HYa dY`\cZYf'5hYa 'GW\Ôb\Yff"
- ØVY!fÀi a Y'ZØf'ghUXhhfUbgZcfa Uh]cb'hYa dY`\cZ'&\$)\$
 FUi a `UVcfž'?`Ui g'Cj Yfa YmYf"

Ni gàhn`]W\ k i fXYb`XfY]'k Y]hYfY`9bhk ØfZY`UbYf_Ubbh"'8]YgYdfàa]YfhYb`5fVY]hYb`k YfXYb`X]Y'; fi bX`U[Y`ZØf`X]Y`Xf]hhY8]U`c[k Yf_ghUhh`]a '\$\`]`&\$&) 'V]`XYbž'k À\fYbX`Y]bY`ÒZZYbh`]W\Y5i gghY``i b['XYf`K YhhVYk YfVgYbhk ØfZY`]a 'GYdhYa VYf`&\$&) [Yd`Ubh`]gh"

8 Yf K YhhVYk YfV i b X X]Y 5 i gk U\`XYf 9bhk ØfZY X]Yb Yb XYa N]Y ž hfU[ZÀ\][Y = XYYb ZØf X]Y Ni _i b Zh XYg HYa dY`\c ZYf : Y`XYg ni Ybhk]W_Y`b " 9g a ØggYb Ui W 5gdY_hY k]Y : fY]f Ài a Y ZØf gdcfh`]W Y ž gcn]U Y i b X _i `hi fY``Y 5_h]j]h ÀhYb gck]Y XYf ?`]a Uk Ub XY`i b X XYf K c\bfUi a VYXUfZ VYfØW_g]W h][h k Yf XYb "

 $6 \varnothing f[YfVYhY]^{[ib[ibX]ni} _ \varnothing bZh][Y$

< YfUi gZcfXYfi b[Yb

? cbhYI h'XYf'9bhk]W_`i b['XYg'HYa dY`\cZYf': Y`XYg']gh'X]Y 6Øf[YfVYhY]`][i b['j cb'nYbhfU`Yf'6YXYi hi b["'J cf'Y]bYa '\\\ k i fXY'Y]bY'8]U`c[k Yf_ghUhh'Y]bVYfi ZYbž'X]Y'XYb': c_i g'Ui Z'XYb 9f\U`h'XYg': Y`XYg'`Y[hY'''<]Yf'Y]b][hYb'g]W\'X]Y'HY]`bY\a YbXYb XUfUi Zž'XUgg'XUg'HYa dY`\cZYf': Y`X'U`g': fY]Z`\\ XWY'Yf\U`hYb V`Y]VYb'a i ggž'k Ug'XUg'9f[YVb]g'XYg'J c`_gYbhgW\Y]Xg'j cb'\&\%(VY_f\\\Zh\][h''?f]h]_Yfz'k]Y'H]`a Ubb'<Yi gYf'j ca '6I B8'6Yf`]bž ZcfXYfb'X]Y'gW\k Ufn!fchY'?cU`]h]cb'Ui Zž'X]Y'[Yd`UbhYb 6YVUi i b[gk YhhVYk YfVY'UVni V`UgYb'i bX'ghUhhXYggYb'X]Y J cf[UVYb'XYg'9bhk]W_`i b[g!'i bX'DZ'Y[Yd`Ubg'i a ni gYhnYbž'XYf]a 'A U]'\&\%'' j YfUVgW\]YXYh'k i fXY"

8]YgYf'D`Ub'g]Y\h'Y]bY'[Yn]Y`hY'K Y]hYfYbhk]W_`i b['XYf'FÀbXYf XYg': Y`XYg'ZØf'?i `hi fž'Gdcfh'i bX'9f\c`i b['j cfž'a]h'[Yd`UbhYb A U» bU\a Yb'k]Y'XYf'GW\UZI b['ni gÀhn`]W\Yf'G]hn[Y`Y[Yb\Y]hYbž XYf'DZUbni b['j cb'6Ài a Yb'i bX'XYf'6YfY]hghY``i b['j cb'a Y\f GdcfhZ`AW\Yb'''< Yi gYf'VYhcbh'X]Y'Bchk YbX][_Y]h'j cb'FUi a 'ZØf BUhi fž'Gdcfhž': fY]nY]h'i bX'9f\c`i b[']b'6Yf`]b'i bX'k Ufbh'j cf'XYf Z]bUbn]Y``Yb'6Y`Ughi b['Y]bYg'6YVUi i b[gk YhhVYk YfVg']b'Y]bYf NY]hž']b'XYf'XYf'6Yf`]bYf'<Ui g\U`h'i bhYf'8 fi W_'ghY\h''

5a '&+"'GYdhYa VYf'&\$&('k]fX'g]W\'ni XYa 'XYf'5i ZhU_h'XYg
[fÒ» hYb'6YhY]`][i b[gj YfZU\fYbg'ni f'9bhk]W_`i b['XYg
HYa dY`\cZYf': Y`XYg'ni a 'nY\bhYb'A U`'^À\fYb"'8Ug'J YfZU\fYbž'XUg
YbhgW\Y]XYbX'ZØf'XYb'9f\U`h'XYg': Y`XYg'k Ufž'nY][h'X]Y'\c\Y
6YXYi hi b['j cb'6Øf[YfVYhY]`][i b[']b'XYf'GhUXhYbhk]W_`i b["

8]Y'A YbgWXYb']b'6Yf`]b'\UVYb'g]W\'hUh_fÀZh]['Ub'X]YgYa 'DfcnYgg VYhY]`][hž'k Ug'Xi fW\'Y]bY'J]Y`nU\`'j cb'J YfUbghU`hi b[Yb'i bX 8]g_i gg]cbgfi bXYb'Xc_i a Ybh]Yfh']gh"'8]YgY'9bhk]W_`i b[Yb gd]Y[Y`b'XYb'h]YZYb'K i bgW\'XYf'6Øf[Yf'k]XYfž']\fY'GhUXh'U_h]j a]hni [YghU`hYb'i bX'g]W\Yfni ghY``Ybž'XUgg'VYgcbXYfY'CfhY'k]Y XUg'HYa dY`\cZYf': Y`X'ZØf'X]Y'_ca a YbXYb'; YbYfUh]cbYb'Yf\U`hYb V`Y]VYb"

8 Y hU]`g	
Cfh	HYa dY`\cZYf': Y`Xž'6Yf`]bž'8Yi hgW\`UbX
EiY``Yb	• k k k "VYf`]b"XY
	k k k "Vi bX!VYf`]b"XY
	• k k k "Vi bX!VYf`]b"XY

6Ygi WXYb G]Y i bg Ui Z. a Y]b!VYf`]b bYh