

5 i gZÀ``Y']a '6U\bj Yf_Y\f.'? UggY`! K]`\Y`a g\Ò\Y'VYhfcZZYb'V]g'&- "'; b]°

5_hi Y``Y`6U\bj Yf_Y\fgÀbXYfi b[Yb']b'K Y]a Uf.'5i gZÀ``Y nk]gWXYb'?UggY`!K]`\Y`a g\Ò\Y'i bX'5\bUhU`!K Y]a Uf'j ca &, "'V]g'&- "'> b]'&\$&) "



K Y]a Ufž8Yi hgW `UbX'!'8]Y'8Yi hgW Y'6U\b'gcf[h'XYfnY]h'ZØf
Y]b][Y'JYfÀbXYfi b[Yb']a 'fY[]cbU`Yb'Ni [jYf_Y\f']b'<YggYb'': Øf
FY]gYbXY'Ui Z'XYf'@]b]Y'F6('nk]gWXYb'?UggY`!K]`\Y`a g\Ò\Y'i bX
?cfVUWX'<VZ'a ØggYb'k]WXh][Y'\DZcfa Uh]cbYb'VYUWXhYh'k YfXYb''
K]Y'bYk g"XY'VYf]WXhYhž'_ca a h'Yg'k Y[Yb'Y]bYg'_i fnZf]gh][Yb
DYfgcbU`Ui gZU``g'ni 'HY]`Ui gZÀ``Yb'i bX'Ni [Ui gZÀ``Yb'nk]gWXYb
?UggY`!K]`\Y`a g\Ò\Y'i bX'5\bUhU`!K Y]a Uf"'8]YgY'ŸbXYfi b[Yb
g]bX'gY]h'\Yi hYž'XYa '&, "'\dangle b]'&\&\) ž'i bX'[Y'hYb'V]g'ni a '&-"'\dangle b]
&\&\)"

FY]gYbXY'gc``hYb'g]W\'XUfUi Z'Y]bghY``Ybž'XUgg'Yg'ni fnY]h 9]bgW\fÀb_i b[Yb'[YVYb'_Ubb"'9]b'9fgUhnj Yf_Y\f']gh']b'D`Ubi b[ž YXcW\'ghY\h'X]Y'6YghÀh][i b['XYf'DUfhbYf'bcW\'Ui g"'\dox'X]YgYa Ni gUa a Yb\Ub['Ya dZ]Y\`h'X]Y'6U\bž'U`hYfbUh]j Y'J Yf_Y\fga]hhY`
]b'6YhfUW\h'ni 'n]Y\Yb"'5_hi Y``Y'\DZcfa Uh]cbYb'ni f'6Yhf]YVg`U[Y
_\ObbYb'_cghYbZfY]'Ui Z'XV!ZU\fd`Ub"Wca 'cXYf']b'XYf'86
BUj][Uhcf!5dd'UV[Yfi ZYb'k YfXYb"'K Ybb': fU[Yb'Ui ZhUi W\Ybž']gh
XYf'?i bXYbX]U`c[']b'<YggYb'i bhYf'XYf'HY`YZcbbi a a Yf'Ž (-'*&(('() +'%\$'YffY]W\VUf"

$DØb_h^{M}W_Y]h^{M}gh^{M}b^{M}YaU$

 $8]Y \cdot D\emptysetb_h`]WX_Y]h`XYf`8Yi hgWXYb`6U\b`]ghY]b`kY]hYg`: Y`X"`=a `$J\f &$&' `k UfYb``YX][`]WX`* (ı `XYf`: Yfbj Yf_Y\fgn\emptyset[Y`dØb_h`]WX\z̄'k Ug]a `JYf[`Y]WX`ni `&$&&`ff*) z̄&ı ŁY]bYb``Y]WX`hYb`FØW_[Ub[`XUfghY``h" 6YgcbXYfg`Ui ZZÀ``][`g]bX`X]Y`' *ı z̄'X]Y`a]h`a]bXYghYbg`gYWXg A]bi hYb`JYfgdAhi b[`i bhYfkY[g`k UfYb"`8]Y`86`FY[]c!NØ[Y gWX\bY]XYb`U``YfX]b[g`VYggYf`UVz̄'a]h`Y]bYf`DØb_h`]WX_Y]h'j cb`-& V]g`-'ı `]a `YfghYb`Ei UfhU``&$&' "`8]Yg`]gh`Y]b`@]WX`hV`]W_`ZØf DYbX`Yf`i bX`FY]gYbXY"'<Ài Z][Y`; fØbXY`ZØf`JYfgdAhi b[Yb`g]bX 6Ui ghY``Ybz`GUb]Yfi b[Yb`i bX`GhÒfi b[Yb`Ub`: U\fnYi [Yb`cXYf`Ua BYhn`XYf`8Yi hgWXYb`6U\b"$

 $: \emptyset f': U \setminus f[\grave{A}ghY\check{z}'X]Y'Ui Z'XYa `@Ui ZYbXYb'V`Y]VYb'k c``Yb\check{z}'ghY \setminus h'X]Y' \\] bhYfU_h]j Y'GhÒfi b[g_UfhY'Ui Z'XV!ZU \ fd`Ub''Wca 'ni f'J YfZ\emptyset[i b['' <]Yf``UggYb'g]W\'U_hi Y``Y'J Yf_Y\fgVY\]bXYfi b[Yb'i bX \ Ni [Ui gZ\A``Y'Y]bgY\Ybž'k Ug'X]Y', VYfg]W\h`]W_Y]h']a 'cZh \ Y_h]gW\Yb'6U\bj Yf_Y\f'Z\OfXYfh''$

±g[YgUa h'V`Y]Vh'ni '\cZZYbž'XUgg'X]Y'bYi Yb'A U» bU\a Yb'i bX 5bdUggi b[Yb'VU`X][Y'6YggYfi b['Vf]b[Ybž'XUa]h'U``Y'FY]gYbXYb X]Y'6U\b'U`g'j Yf`Àgg`]W\Yg'JYf_Y\fga]hhY``bi hnYb'_ÒbbYb"

8 YhU]`g	
Cfh	KY]a Ufž'8Yi hgWX`UbX
EiY``Yb	• k k k "bYk g"XY
	• k k k "XV!ZU\fd`Ub"Wca
	• kkk"XYihgW\YVU\b"Wca

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