

9fZc`[fY]WXY'BUWXVYghY``ib[. FY]b]W_YbXcfZ'jYfhY]`h'bYiY <ibXY_chVYihY`

 $8 \text{ Ug C f X bi b [gUa h F Y]b]} W_Y b X c f Z \setminus Uh^Y hnh Y g^* y \setminus f^*, $$ _^Y]b Y$ V`Ui Y`<i bXY_chVYi hY`qdYbXYf`]a `?bcW\YbXYq][b'U`q GYfj]WY`Y]qhi b['ZØf'<i bXY\U`hYf]bbYb'i bX' \U`hYfb'ni f JYfZØ[ib['[YghY``h"8]YgYkUfYb'gc'VY`]YVhžXUgg'bib'Y]bY $BUWXVYghY^ib[YfZc^[hY"8]Y^nighAbX][Y^6Yn]f_gghUXhfAh]b$ ZØf°CfXbib[žlakY`hibX°JYf_Y\fž'≯`]U°GW\fcX!H\]Y`ž VYf]WXhYhž'XUgg'XUg' ⇒hYfYggY'Ub'XYb <ibXY chVYi hY`qdYbXYfb f]Yq]['k Uf'i bX 'qc[Uf</pre> XYi hqWX`UbXk Y]h'5bZfU[Yb'Ui g'UbXYfYb'?ca a i bYb'i bX Ug]Uh]gWXYb @AbXYfb Y]b[Y[Ub[Yb g]bX"'8]Y 9]bZØ\fi b[XYf _`Y]bYb'V`UiYb'?bcW\Yb'X]YbhY'XYf'9f\Ò\ib['XYf GhUXhqUi VYf_Y]h^]b^FY]b]W_YbXcfZ''<i bXY_ch^ghY``h^]b OZZYbh`]W\Yb'; fØbUb`U[Yb'gck]Y']b'@UbXgW\UZhq!'ibX BUhi fqWli hnVYfY]WlYbž'Ui Z'; Y\kY[Ybž'D`ÀhnYb'i bX'GhfU»Yb $CfXbib[gk]Xf][_Y]hUb[YgY\Yb/UadAY``]d/$

8 UgʻCfXbi b[gUa hʻFY]b]W_YbXcfZ`\Uhʻ`YhnhYgʻ\J\fʻ, \$\$`_`Y]bY
V`Ui Yʻ<i bXY_chVYi hY`gdYbXYfʻ]a '? bcWXYbXYg][b'U`g
GYfj]WY`Y]ghi b['ZØf'<i bXY\U`hYf]bbYbʻi bX` \U`hYfbʻni f
J YfZØ[i b['[YghY``h"'8]YgY'k UfYbʻgcʻVY`]YVhž'XUggʻbi bʻY]bY
B UWXVYghY``i b['YfZc`[hY"'8]Y`ni ghÀbX][Y`6Yn]f_gghUXhfÀh]bʻZØf
C fXbi b[ž'I a k Y`hi bX'J Yf_Y\fž'*`]UʻGWXfcX!H\]Y`ž'VYf]WXhYhž'XUgg
XUgʻ\bhYfYggY`UbʻXYb`<i bXY_chVYi hY`gdYbXYfbʻf]Yg]['k Ufʻi bX
gc[UfʻXYi hgWX`UbXk Y]hʻ5bZfU[YbʻUi gʻUbXYfYbʻ?ca a i bYbʻi bX
Ug]Uh]gWXYbʻ@AbXYfbʻY]b[Y[Ub[Ybʻg]bX"'8]Yʻ9]bZØ\fi b[ʻXYf
_`Y]bYbʻV`Ui Ybʻ?bcWXYbʻX]YbhYʻXYfʻ9f\O\i b[ʻXYf
GhUXhgUi VYf_Y]hʻ]bʻFY]b]W_YbXcfZ"

 $< i bXY_ch'ghY``h']b'\dot{O}ZZYbh`]WXYb'; fØbUb`U[Yb'gck]Y']b$

@UbXgW\UZhg! i bX BUhi fgW\i hnVYfY]W\Ybž'Ui Z'; Y\k Y[Ybž'D`ÀhnYb i bX GhfU» Yb Y]b 'Ÿf[Yfb]g XUf" 8 Ug ``]Y[Yb '[Y`UggYbY' < i bXY_ch k]fX 'U`g'C fXbi b[gk]Xf][_Y]h Ub[YgY\Yb i bX Yb hgd fYW\YbX [YU\bXYh" @Ui h GhfU» YbfY]b][i b[g[YgYhn VYghY\h gY]h &\$%* `]b 6Yf`]b 'X]Y 'J Yfd Z]W\hi b['XYb ' < i bXY_ch'Ui Zni \YVYbž']b 'Y]bYa _`Y]bYb 'HØhW\Yb 'Ui Zni VYk U\fYb i bX 'V]g 'ni a 'bÀW\ ghYb 'A Ø``Y]a Yf VY]'g]W\' ni 'hfU[Yb" 8]Y '_cffY_hY '9bhgcf[i b['j cb' < i bXY_ch'hfÀ[h ZØfY]b 'gUi VYfYg'9fgW\Y]bi b[gV]`X 'XYg'ÒZZYbh`]W\Yb 'F Ui a Yg'VY]"

8]Y'bYi Yb'<i bXY_chVYi hY`k YfXYb'i bhYf'UbXYfYa 'VY]'XYb'6GF!?]YnhU[Yb'&\$&('j YfhY]`h"'9g'k]fX'VYhcbhž'XUgg'<i bXY_ch'_Y]b
8Øb[Yf']ghž'XU'Yf'hY]`k Y]gY'K Øfa Yfž'6U_hYf]Yb'gck]Y'?Y]a Y
Ybh\À`hž'i bX'XU\Yf'ØVYf'XYb'FYgha Ø``'i bX'b]W\h'ØVYf'X]Y
6]chcbbY'Ybhgcf[h'k YfXYb'gc``hY"

±b`XYf`Zc`[YbXYb`HUVY``Y`g]bX`X]Y`k]W\h][ghYb`±bZcfa Uh]cbYb`ni f H\Ya Uh]_`ni gUa a Yb[YZUggh.

<i bXY_chVYi hY`gdYbXYf`g]bX`Y]bY`g]bbj c``Y`A U» bU\a Yži a `X]Y
GUi VYf_Y]h`XYf`ÒZZYbh`]W\Yb`FÀi a Y`ni 'j YfVYggYfb'i bX`Y]b
j YfUbhk cfhi b[gj c``Yg`J Yf\U`hYb'j cb'<i bXY\U`hYf]bbYb'i bX
\U`hYfb'ni 'ZÒfXYfb"</pre>

±g[YgUa hi]ghiX]Yi9]bZØ\fi b[iXYfi<ibXY_chVYi hY`gdYbXYfi]b FY]b]W_YbXcfZY]bidcg]h]j YfiGW\f]hhini fi9f\Ò\i b[iXYf GhUXhgUi VYf_Y]hii bXini fiGYbg]V]`]g]Yfi b[iXYfi6Øf[Yf]bbYbii bX 6Øf[YfiZØfiXUgiH\Ya Ui<ibXY_chYbhqcf[ib["

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