

; `Uga Ubi ZU_hi f`HgWXYfb]hn`j cf`XYa `5i g. &) \$`>cVg`]b`; YZU\f°

8]Y'; `Uga Ubi ZU_hi f'6fUbXYbVi f['a Y`XYh' ⇒bgc`j Ybn'Ubž VYhfcZZYb'g]bX'&) \$'5fVY]hgd`ÀhnY"'Dc`]h]gWXY'I bhYfghØhni b[[YZcfXYfh"



HgW Yfb]hnž8 Yi hgW `Ub X !! 8]Y ; `Uga Ubi ZU_hi f'6fUb XYbVi f[
fl A 6½]b 'HgW Yfb]hn `Uh '\(\frac{1}{2}\) gc j Ybn 'Ub [Ya Y `XYhž'k Ug Y]bY

VYgcf[b]gYffY[Yb XY '9bhk]W_`i b['ZØf X]Y 'XYi hgW Y 'Gc `Uf]b Xi ghf]Y

XUfghY``h"; YgW À ZhgZØ\fYf B]Wc 'Gi WWc `ck g_m VYghÀh][hYž XUgg XYf
\(\frac{1}{2}\) gc 'j Ybn UbhfU['Ua 'j Yf[Ub[YbYb': fY]hU['VY]a '7chhVi gYf

5a hg[Yf]W h'Y]b[YfY]W h'k i fXY" Fi b X '\(\frac{1}{2}\) \$ '5fVY]hgd `AhnY 'g]b X

VYhfc ZZYbž XU 'VYfY]hg '\(\frac{1}{2}\) (' 'A]hUfVY]hYf ']b '? i fnUfVY]h 'g]b X" '8]YgY

G]hi Uh]cb 'k i fXY 'Xi fW 'X]Y gW k]Yf][Y'k]fhgW UZh]W Y '@U[Y 'XYf

Yi fcd A]gW Yb 'Gc `UfVfUbW Y'j Yfi fgUW hž X]Y i bhYf 'Ub XYfYa 'j cb

gi Vj Ybh]cb]YfhYb 'Dfc Xi _hYb 'Ui g '7 \]bU 'VY `UghYh'k]fX" 'Hfc hn

]bhYbg]j Yf '6Ya Ø\i b[Yb '_cbbhY 'X]Y '@U[Y 'k Y]hYf'j YfgW AfZh"

8]Y; A 6žX]Y gY]h'%) '*J\fYb 'Gc `Uf[`Ug '\YfghY``hž'\Uh g]W 'ghYhg 'ZØf X]Y '\Y]a]gWXY DfcXi _h]cb i bX 'X]Y I bUV\Àb[][_Y]h'XYf @]YZYf_YhhYb ']b '8 Yi hgWX `UbX 'Y]b[YgYhnh'' G]Y _f]h]g]Yfh 'YXcWX 'X]Y i b[Øbgh][Yb 'K YhhVYk YfVgVYX]b[i b[YbžX]Y 'a Ub 'Xi fWX 'XUg 9b[U[Ya Ybh']b 'gi Vj Ybh]cb]YfhY 'DfcXi _hY 'Ui g '5g]Yb 'Yf\À`hž'gck]Y XUg'j YfgÀi a hY 'F Yg]`]YbnVcbi g!DU_Yh'XYf '6i bXYgfY[]Yfi b[ž'XUg ZØf I bhYfghØhni b['\ÀhhY 'gcf[Yb 'gc ``Yb'' 8 Yf @UbXfUh'j cb 'GdfYY! BY]» Yž' < UfU'X '5`hY_fØ[Yfž'\UhhY 'VYfY]hg'Y]bYb'6fUbXVf]YZ'Ub 'X]Y @UbXYg! i bX '6i bXYgfY[]Yfi b['[YgWX]W_hž']b 'XYa 'Yf'Ui Z'X]Y 8f]b[`]WX_Y]h'XYf'G]hi Uh]cb '\]bk]Yg'i bX 'i a 'FYhhi b['XYf fY[]cbU'Yb'; `UgdfcXi _h]cb 'VUh'

8Yf'GhY``Ybk Yfh'XYf'; A 6']b'XYf'FY[]cb

8]Y; A 6'k Uf'Y]bgh'XYf'[fÒ» hY'5fVY]h[YVYf']b'GØXVfUbXYbVi f[ibX'Y]b'k YgYbh']WXYf'HY]'XYf'XYi hgWXYb'Gc'Uf]bXi ghf]Y"'8Yf
A Y\f\Y]hgY][YbhØa Yf'6cfcg]'k UfbhY'j cf'Y]bYa 'a Ò[`]WXYb
Z]bUbn]Y`Yb'?c``Udg'i bX'ZcfXYfh'Xf]b[YbX'I bhYfghØhni b['j cb'XYf
Dc`]h]_ž'UbXYfbZU``g'k YfXY'X]Y'DfcXi _h]cb']b'HgWXYfb]hn
Y]b[YghY``h"'8]Yg'k ØfXY'b]WXh'bi f'Y]bYb'JYf'i gh'j cb'' \$\$
5fVY]hgd`ÀhnYb'VYXYi hYbž'gcbXYfb'Ui WX'Y]bYb'gWXk YfYb'GWX`U[
ZØf'X]Y'[YgUa hY'FY[]cb'XUfghY``Yb"'7\f]gh]Ub'?Yfbž
JYfk U`hi b[gfUhgWXYZ'j cb'+bhYfZ'cUhž'VYhcbhY'X]Y'6YXYi hi b[
X]YgYf'G]hi Uh]cb'i bX'X]Y'Bchk YbX][_Y]h'j cb'A U» bU\a Yb'gY]hYbg
XYf'FY[]Yfi b["

8]Y'I fgUWXYb'ZØf'X]Y'dfY_ÀfY'@U[Y'XYf'; A 6'g]bX'j]Y'ZÀ'h]["'I bhYf UbXYfYa 'V'Y]VYb'GhfUZhÒ'Y'[Y[Yb'6]'][!Gc`UfdUbYY'Y'Ui g'7\]bU Ui gž'k cXi fWX'XYf'A Uf_hXfi W_'Ui Z'\Y]a]gWXY'<YfghY''Yf'k Y]hYf ghY][h"'8Yi hgWX`UbX']gh']a 'JYf['Y]WX'ni 'UbXYfYb'@ÀbXYfb'k]Y \DX]Yb'i bX'XYb'I G5'dUgg]j ž'i bX'X]Yg'VY`UghY'X]Y'\Y]a]gWXY \DXI ghf]Y'Yf\YV']WX"K À\fYbX'JYfhfYhYf'j cb'GD8'i bX'; fØbYb Y]bYb'FYg]']YbnVcbi g']a 'Gc`UfdU_Yh'%'j cfgWX`U[Ybž'nY][h'g]WX'X]Y : 8 D'g_Ydh]gWX'[Y[YbØVYfY]bYf'Gi VjYbh]cb]Yfi b["

K]XYfghUbX'i bX'< YfUi gZcfXYfi b[Yb']b'XYf
Gc`Uf]bXi ghf]Y</pre>

8]Y XYi hgWX Y Gc`UfVfUb WX Y ghY\h'XYfnY]h'ghUf_'i bhYf'8 fi W_"
GWX cb']a '\$J\f'&\$&('_Ua 'Yg'ni 'Y]bYa 'ghUf_Yb'8 Àa dZYf'bUWX
Y]bYa '6cca ž'Ui g[Y`Ògh'Xi fWX 'X]Y '9bYf[]Y_f]gYž'X]Y ']bZc`[Y'j cb
K `UX]a]f'Di h]bg'5b[f]ZZg_f]Y['Ui Z'X]Y I _fU]bY 'YbhghUbX"'8]Y
ghY][YbXYb'; UgdfY]gY'ZØ\fhYb'ni 'Y]bYa 'Yf\Ò\hYb'\DhYfYggY'Ub
YfbYi YfVUfYb'9bYf[]Ybž']bgVYgcbXYfY'Ub'Gc`UfYbYf[]Yž'YXcWX
Yf`YVhY'XYf'A Uf_h'&\$&('Y]bYb'XfUa Uh]gWXYb'FØW_[Ub["J]Y`Y
I bhYfbY\a Yb'XYf'6fUbWXYž'k]Y'9][YbgcbbY'i bX'5a]U'9bYf[mž
a Y`XYhYb'\DgcXj Ybn'Ubž'k Ug'Y]bY'K Y``Y'j cb
I bhYfbY\a YbggWX`]Y»i b[Yb'ni f': c`[Y'\UhhY"

9]bY'l a ZfU[Y'i bhYf' +bghU``UhYi fYb'XYg'A Uf_hYg'VYghÀh][hYž'XUgg a Y\f'U`g'nk Y]'8f]hhY``j cb'Y]bYa 'FØW_[Ub['XYf'BUW\ZfU[Y'bUW\D\chcj c`hU]_!5b`U[Yb'VYf]W\hYhYb"'5i Z[fi bX'XYf'[Øbgh][Yb DfcXi _hY'Ui g'7\]bU'gh]Y['XYf'K YhhVYk YfVgXfi W_'Ui Z'\Ygg]gW\Y < YfghY``Yfž'X]Y'_Ui a '*ı 'XYg'A Uf_hYg'ZØf'DJ!A cXi `Y']b 8Yi hgW\`UbX'UVXYW_Yb"'8Yf'5VgUhn'j cb'Gc`Ufa cXi `Yb']gh XYi h`]W\'[Ygi b_Ybž'k Ug'Dfc[bcgYb'ni Zc`[Y'Ui W\']b'XYb _ca a YbXYb'A cbUhYb'ZØf'j]Y`'I bfi \Y'gcf[Yb'k]fX"

8 Yf'GW\]W_gU``XYf'; A 6 'k]fX'b]W\ h'bi f'ZØf'X]Y'FY[]cb'HgW\ Yfb]hnž gcbXYfb'Ui W\ 'ZØf'X]Y'[YgUa hY'XYi hgW\ Y'Gc`Uf]bXi ghf]Y'j cb YbhgW\ Y]XYbXYf'6YXYi hi b['gY]b"'9]bY'a Ò[`]W\ Y'GW\`]Y»i b[__\ObbhY'k Y]hfY]W\ YbXY': c`[Yb'ZØf'X]Y'9bhk]W_\`i b['YfbYi YfVUfYf 9bYf[]Yb']b'8Yi hgW\`UbX'\UVYb"'K Y]hYfY'\DZcfa Uh]cbYb'ni f\Dgc\j Ybn'XYf'; A 6 'i bX'XYb'< YfUi gZcfXYfi b[Yb']b'XYf Gc`UfVfUbW\ Y'Z]bXYb'G]Y']b'XYb'6Yf]W\ hYb'j cb'fVV\ (\Z'?YhhbYf 9XY\`a YhU``Y'i bX': fUb_Zi fhYf'Fi bXgW\ Ui "

8 Y hU]`g	
Cfh	HgWXYfb]hnž8Yi hgWX`UbX
Ei Y``Yb	• k k k "fVV&("XY
	k k k "_YhhbYf!YXY`a YhU``Y"XY
	• k k k "Zf"XY

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'a Y]b!VYf`]b "bYh