

8cf]g'8 Off]Y'k]fX'+\$.'9]b'@YVYb'j c``Yf ; YgWX]WX hYb'i bX':]`a _i bgh°

8 c f] g '8 Òff] Y 'k] f X '+\$. '9] b '6`] W_ 'Ui Z'] \ f Y ':]`a Y ž'] \ f Y ; Y X U b _ Y b 'ni f '9] b g Ua _ Y] h 'i b X 'X] Y ': Y] Y f '] a '@] h Y f U hi f \ Ui g A Ø b W Y b 'Ua ') "' \$ b] "

A Øb WX Yb ž 8 Yi hg WX `Ub X '! 8 cf]g '8 Off]Y ž 'X]Y `VY_Ub bhY `XYi hg WX Y FY[]ggYi f]b ž 8 fY\Vi WX Ui hcf]b i b X `GWX f]ZhghY``Yf]b ž `ZY]Yfh`\Yi hY]\fYb '+\$"; YVi fhghU["; YdfA[hij cb 'Y]b Ya 'Y]b Xfi W_gj c ``Yb GWX UZZYb ž Yf`Ub[hY 'g]Y '[fc >> Y '6 Y_Ub bh\Y]h Xi fWX ']\fY '? ca OX]Y A AbbYf 'Ui g 'XYa '\$U\f'%-,) ž 'X]Y 'a]h 'dfca]b Yb hYb GWX Ui gd]Y `Yfb 'k]Y '< Y]b Yf @Ui hYfV UWX 'i b X 'I k Y 'C WX gYb_b Y WX h VYgYhnh'k Uf" '8]YgY '5 fVY]h ``Y[hY 'XYb'; fi b XghY]b 'ZØf']\fY '? Uff]YfY i b X 'OZZb YhY']\f'X]Y 'HØfYb 'ni 'k Y]hYfYb 'VYXYi hYb XYb 'Dfc 'Y_hYb'' @Ui h'db d "XY'g]b X 'Ui WX':]`a Y 'k]Y' ?]fg WX V`ØhYb'' < Ub Ua] 'i b X ; fØ >> Y 'Ui g': i _i g\]a U 'k]WX h][Y 'A Y]`YbghY]b Y ']b '8 Off]Yg GWX UZZYb"

 $8 \ \tilde{O}ff]Y'k \ i \ fXY'Ua \ "&*"'A \ U]'\%-)) \ "]b'< Ubbcj Yf'[YVcfYb'i bX UVgc'j]YfhY'XUg'5V]hi f'Ub'XYf'Gcd\]YbgWki `Y'''GdÀhYf'ghi X]YfhY'g]Y H\YUhYfk]ggYbgWk UZhYb'i bX':]`a ']b'XYb'I G5<math>\tilde{z}$ 'i bhYf'UbXYfYa 'Ub XYf'I b]j Yfg]hm'cZ'h\Y'DUW]Z]Wi bX'BYk 'GWkcc`'Zcf'GcW]U`'FYgYUfWk'' \(\arr Y'5i \ gV]`Xi b['gYhnhY'g]Y'%- +) 'Ub'XYf'< cWkgWki `Y'ZØf : YfbgY\Yb'i bX':]`a 'fk:: \(\arr Y']b'A \ ØbWkYb'Zcfh''' \(\arr D'X)YgYf'NY]h j Yf\"OZZYbh`]WkhY'g]Y':]`a _f]h]_Yb']b'XYf'G\"OXXYi \(\arr gWkYb''NY]hi b['i bX UfVY]hYhY'Ub'_`Y]bYfYb''8c_i a YbhUfZ]`a Yb''

9]b'@YVYb'nk]gW\Yb'9]bgUa_Y]h'i bX ?fYUh]j]hÀh

 \pm 0]\fYa '6i W\ K c\bYb 'fYZY_h]Yfh'8 Off]Y 'ØVYf']\fY

5i hcV]c[fUZ]Yž]bXYa 'g]Y'j YfgWX]YXYbY'K c\bcfhY'h\Ya Uh]g]Yfh" 8]Yg'ghY\h']bYb[Ya 'Ni gUa a Yb\Ub['a]h']\fYf @YVYbgY]bghY``i b[.'8]Y'FY[]ggYi f]b'VYhcbhž'XUgg'g]Y'b]Y'ZØf]a a Yf'Ub'Y]bYa 'Cfh'`YVYb'k c``hYž'k Ug'YXcWX'Ui WX'a]h 9]bgUa _Y]h'j YfVi bXYb'k Uf"'I a 'a]h'X]YgYf'9]bgUa _Y]h i a ni [Y\Ybž'ZUbX'g]Y'_fYUh]j Y'A Yh\cXYbž'k]Y'Yhk U'XYb'6Ygi WX'i I i f]ÒgYf'5bk YgYb']b'@cg'5b[Y`Yg"'G]Y'Ài »Yfh'ni XYa '6Ygcf[b]g @VYf'X]Y'X][]hU`Y'JYfY]bgUa i b['i bX'X]Y'5i gk]f_i b[Yb'Ui Z'X]Y 8Ya c_fUh]Y"'8UVY]'k Ufbh'g]Yž'XUgg'XYf'JYf`i gh'j cb'YWXhYb 6Y[Y[bi b[gfÀi a Yb'X]Y': À\][_Y]h'ni f'?ca dfca]ggZ]bXi b[[YZÀ\fXYb'_ObbhYž'k]Y'dbd"XY'VYf]WXhYh'

8 Off]YžX]YY]bYJ]Y`nU\``Ub`K Yf_Yb`[YgWXUZZYb`\UhžXUfibhYfFca UbYž?ifn[YgWX]WXhYb`gck]Y`?]bXYfVØWXYfžhY]`h']\fY
9fZU\fib[Yb`Ui WX`U`g`<cWXgWXi`dfcZYggcf]b`ZØf`5b[Yk UbXhY
8fUa Uhif[]Y`ibX`GhcZZYbhk]W_`ib[`Ub`XYf`<:: `A ØbWXYb''
5i »YfXYa `]gh`g]Y`@Y]hYf]b`j cb`GWXfY]Vk cf_g\cdg`ibX`a OWXhY`]\fY
@Y]XYbgWXUZh`ZØf`XUg`GWXfY]VYb`a]h`UbXYfYb`hY]`Yb''`=\f`K Yf_
?]fgWXV`ØhYb `YfnÀ\`h'j cb`XYf`HfUiYf`XYg`DfchU[cb]ghYb`FiX]ž
XYf`bUWX`XYa `d`Ohn`]WXYb`HcX`gY]bYf`DUfhbYf]b`HfiX]`bUWX`\$JdUb
fY]ghžia `g]WX`a]h`XYf`JYf[Ub[Yb\Y]h`ibX`XYb`9f]bbYfib[Yb
UigY]bUbXYfnigYhnYb''8Ug`6iWX`YfgWX]Yb`&\$%%`]a `8]c[YbYg
JYf`U[`ibX`]ghY]bY`Ylei]g]hY`JYfV]bXib[`jcb`:]`a `ibX`@]hYfUhifž
k]Y`ViYWXYf"XY`VYgWXfY]Vh"

: $Y]Yf^]WX_Y]hYb'ibX'5igV^]W_'UiZ'X]Y$ Ni ibZh

I a '8 Off]Yg'+\$"; YVi fhghU['ni 'ZY]Yfbž'Z]bXYh'Ua ') "'¾ b]']a

A ØbW\bYf'@hYfUhi f\Ui g'Y]bY'OZZYbh']W\Y'JYfUbghU'hi b['ghUhhž

cf[Ub]g]Yfh'j ca '8]c[YbYg'JYf'U["'5i W\k Ybb'g]Y'bi b']b'Y]bYa

bYi Yb'@YVYbgUVgW\b]hh'Ub[Y_ca a Yb']ghž'V'Y]Vh'8 Off]Y'Y]bY

U_h]j Y'Gh]a a Y']a 'XYi hgW\Yb':]`a 'i bX'XYf'@hYfUhi fž'ghYhg'Ui Z'XYf

Gi W\Y'bUW\'bYi Yb'_fYUh]j Yb'<YfUi gZcfXYfi b[Yb"

5i Z']\fYa 'K Y['\Uh'g]Y 'nU\`fY]W\Y'5i gnY]W\bi b[Yb 'Yf\U`hYbž XUfi bhYf'9]b`UXi b[Yb']b'X]Y'5WUXYa m'cZ'A ch]cb'D]Whi fY'5fhg'UbX GW]YbW\g'i bX'A]h[`]YXgW\UZhYb']a 'D9B!NYbhfi a '8Yi hgW\`UbX

gck]Y`]b`XYf`8Yi hgW\Yb`:]`a U_UXYa]Y"'→f`K i bgW\`bUW\`:f]YXYb
ZØf`U``Y`]gh`Yhk Ugž`XUg`g]Y`]b`]\fYb`5fVY]hYb`i bX`]a `dYfgÒb`]W\Yb
5i ghUi gW\`VYhcbhž`k cXi fW\`g]Y`b]W\h'bi f`U`g`?Øbgh`Yf]bž`gcbXYfb
Ui W\`U`g`A YbgW\`k U\f[Ybca a Yb`k]fX"

8 Off]Yg '9b[U[Ya Ybh'ZØf'_fYUh]j Y '5i gXfi W_gZcfa Yb'i bX']\fY _f]h]gW\XY'5i gY]bUbXYfgYhni b['a]h': fU[Yb'XYf'9]bgUa _Y]h'i bX'XYf a YbgW\`]W\Yb'6Y[Y[bi b['a UW\Yb'g]Y'ni 'Y]bYf'k]W\h][Yb DYfgÒb`]W_Y]h']b'XYf'XYi hgW\Yb'?i `hi fgnYbYž'X]Y'Ui W\'k Y]hYf\]b]bgd]f]YfYb'k]fX"

8 Y hU]`g	
Cfh	A ØbWX Ybž'8 Yi hgWX`UbX
EiY``Yb	• k k k "dbd"XY
	• k k k "Vi YWX Yf"XY
	XY"a "k]_]dYX]U"cf[

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