

: U`gWX Yf'5`Ufa . '9j U_i]Yfi b['Ub CgbUVfØW_Yf'GWXi `Yb'bUWX'8fc\i b[

: U_Y'6ca VYbXfc\i b['Ub'nk Y]'CgbUVfØW_Yf'GW\i `Yb'ZØ\fh ni 'Dc`]nY]Y]bgUhn'i bX'9j U_i]Yfi b["'9fa]hh`i b[Yb'`Ui ZYb"

5a 8]YbghU[a cf[Yb k i fXY X]Y Dc 9]nY] 1]b C gbUVfØW_ k Y[Yb Y]bYf 8fc\i b[1 a]h Y]bYf 6ca VY U U Ufa]Yfh 1 8]Y 1 6 G 9 J YfgVi f[1 i bX X]Y 1 7 YgUa hgWki 1 Y GWk]b_Y Yf\]Y hYb Y]bY YbhgdfYWk Yb XY 1 9!A U] 1 Z X]Y i ba]hhY 1 VUfY 1 6 Ygcf[b]g Ui g 1 0ghY 1 9g]gh b]Wk h XUg YfghY A U 1 Z XUgg gc 1 Wk Y 1 8 fc\i b[Yb 1 GWki 1 Yb 1 VYhfY ZZYb 1 A\b 1 JWk Y 1 J cfZA 1 Y k i fXYb 1 9b [gh Ui Wk 1]b DY]bY 1 6 fYa Yb i bX 1 GUWk gYb! 5b\U h 1 [Ya Y 1 XYh"

a `Ni [Y'XYf'8fc\i b['\UbXY`hY'X]Y'GW\i ``Y]hi b['XYf'
G

9j YfgVi f['gW\bY``i bX'j YfUbhk cfhi b[gVYk i gghž']bXYa 'g]Y'X]Y

gc Zcfh][Y'9j U_i]Yfi b['XYg'GW\i `[YV\Ai XYg'UbcfXbYhY''8]Y

GW\Ø`Yf'k i fXYb'bUW\' < Ui gY'[YgW\]W_hži a ']\fY'G]W\Yf\Y]h'ni

[Yk \A\f`Y]ghYb'''Gc`W\Y'A U» bU\a Yb'_\ObbYb'YXcW\']a a Yf'Ui W\

DUb]_'Ui g`OgYbž'k Yg\U`V'X]Y'FYU_h]cb'XYf'GW\i `Y']b'X]YgYa ': U``

VYa Yf_Ybgk Yfh'k Ufž'XU'g]Y'[`Y]W\nY]h]['Ui W\'X]Y'CfXbi b[

Ui ZfYW\h'Yf\]Y`h''
</pre>

Dc`]nY]`]WXY'A U»bU\a Yb'i bX'9fa]hh`i b[

K À\fYbX'XYf'dc`]nY]`]W\Yb'9fa]hhìi b[Yb'kifXYb'VY]XY'GW\i`YbibhYfgi W\h/XUVY]`kifXY'X]Y'9!A U]`'Ui Z']\fYb
9fbgh\UZh][_Y]hg[Y\U`h'[YdfØZh"'8]Y'Dc`]nY]'ghY``hY'ZYghž'XUgg'X]Y
8fc\ib[ž'À\b`]W\XYb'jcfUb[Y[Ub[YbYb': À``Yb']b'UbXYfYb
GhÀXhYbžibVY[fØbXYh'kUf"'9g'kifXYb'_Y]bY'5iZZÀ``][_Y]hYb']b
cXYf'ia 'X]Y'GW\i`[YVÀiXY'YbhXYW_hž'kUg'nif'9bh`Ughib['U``Yf

8]Y'fYW\h`]W\Yb'GW\f]hhY'k i fXYb'XYbbcW\'Y]b[Y`Y]hYh'''9]b

J YfZU\fYb'k Y[Yb'GhÒfi b['XYg'ÒZZYbh`]W\Yb': f]YXYbg'Xi fW\'X]Y

5bXfc\i b['j cb'GhfUZhUhYb'k i fXY'[Ya À»'z%&*'5Vg'''%'Gh; 6
]b]h]]Yfh'''9g'nY][h'g]W\Z'XUgg'gc`W\Y'8fc\i b[Yb'Yfbgh'[Ybca a Ybk YfXYb'i bX'X]Y'6Y\ÒfXYb'j YfdZ]W\hYh'g]bXZ'YbhgdfYW\YbXY

A U» bU\a Yb'ni 'hfYZZYbZ'Ui W\'k Ybb'X]Y'8fc\i b['gW\'i ggYbX`]W\U`g': U_Y'Ybh`Ufj h'k]fX''

- K Ugʻ]ghʻdUgg]Yfh3': U_Yʻ6ca VYbXfc\i b[ˈj]Uʻ9!A U]``Ub nk Y]ʻCgbUVfØW_YfʻGWki `Yb"
- K Yf'k Uf'VYhY]`][h3'

 GWX]b_Y`ž'Dc`]nY]'C gbUVfØW_"
- K c'ZUbX'XUg'; UbnY'ghUhh3' ± CgbUVfØW_ž B]YXYfgUWxgYb"
- K Ubb [YgW\ U\ XUg3 5a 8]YbghU[a cf[Yb"
- K Ufi a ']gh'XUg'k]WX h][3'Gc`WXY'8fc\i b[Yb'[YZÀ\fXYb X]Y'G]WXYf\Y]h'i bX'Fi\Y'Ub'GWXi`Yb'i bX'a ØggYb Yfbgh\UZh'j YfZc`[h'k YfXYb"

 $6 YgcbXYfg`VYXYi hgUa `]gh`X]Y`HUhgUWXYž`XUgg`gc`WXY`JcfZÅ``Yb]WXh`]gc`]Yfh`g]bX"`=a `?cbhYI h`XYf`U_hi Y``Yb`G]WXYf\Y]hg`U[Y`i bXXYf`ghÅbX][Yb`6YXfc\i b[`Xi fWX`a <math>O[`]WXY`; Yk U`hhUhYb`UbGWXi `Ybž`g]bX`X]Y`FYU_h]cbYb`j cb`GWXi `Yb`i bX`Dc`]nY]'j cbkYgYbh`]WXYf`6YXYi hi b[`ZØf`X]Y`5i ZfYWXhYf\U`hi b[`XYfG]WXYf\Y]h"`8]Y`a i ha U<math>_{}$ `]WXYb`HÅhYfž`X]Y`\]bhYf`gc`WXYb8fc\i b[Yb`ghYW_Ybž`[YZÅ\fXYb`b]WXh`bi f`XYb`GWXi`VYhf]YVžgcbXYfb`Ui WX`XUg`X c\`VYZ]bXYb`XYf`GWXØ`Yf`i bX`XUg`JYfhfUi Yb]b`OZZYbh`]WXY`9]bf]WXhi b[Yb"

9b[U[Ya Ybh'XYf'GWXi ``Y]hi b[Yb

8]Y' = G'9j YfgVi f['\Uh'Xi fW\']\f'gW\bY``Yg' < UbXY`b'Y]b'NY]W\Yb
[YgYhnhž'k]Y'k]W\h]['X]Y'G]W\Yf\Y]h'XYf'GW\Ø`Yf']gh"'8Yf
i ba]hhY`VUf'UbgW\`]Y» YbXY'bcfa U`Y'GW\i`VYhf]YV'Ub'XYf
; YgUa hgW\i `Y'GW\]b_Y`'j YfXYi h`]W\hž'XUgg'gY`Vgh']b
Ub[YgdUbbhYb'G]hi Uh]cbYb'Y]bY'FØW__Y\f'ni f'Fci h]bY'a Ò[`]W\
]gh"'9g'V`Y]Vh'YXcW\'UVni k UfhYbž'k]Y'GW\i`Yb']b'Ni _i bZh'a]h
X]YgYa 'H\Ya U'i a [Y\Yb'k YfXYbž'i a ']\fY'GW\Ø`Yf'VYgha Ò[`]W\

8]Y``YhnhYb`HU[Y`\UVYb`YfbYi h'j YfXYi h`]W\hž'XUgg`]b`i bgYfYf
j YfbYhnhYb`K Y`h'?ca a i b]_Uh]cb`gck c\``Y]bY`; YZU\f`U`g`Ui W\`Y]b
GW\i hnZU_hcf`XUfghY``Yb`_Ubb"`8]Y`J YfUbhk cfh`]W\Yb`VY]`XYb
GW\i `Yb`a ØggYb`g]W\`Zcfh`Ui ZYbX`a]h`X]YgYb`<YfUi gZcfXYfi b[Yb
Ui gY]bUbXYfgYhnYb`i bX`]\fY`?f]gYbd`\AbY`[Y[YVYbYbZU``g
UbdUggYb"

5_hi Y``Y'6YXfc\i b[g`U[Y'Ub'GW\i `Yb

#D'XYb'`YhnhYb'*J\fYb'\UVYb'g]W\'JcfZ\`Yjcb'6ca VYbXfc\ib[YbUb'GW\i'Yb'k Y\hk Y]hjYfgh\f_h''8]YgY'6YXfc\ib[Yb'YfnYi[Ybb]W\h'bif'5b[ghz'gcbXYfb'Ui W\'Yf\YV\]W\Y'gcn]U'Y'ibXk]fhgW\UZh`]W\Y'5igk]f_ib[Yb'''1a'X]Y'H\YaUh]_'[YbUiYf'niVY`YiW\hYbz']gh'Yg'k]W\h][z'U_hiY``Y'GhUh]gh]_Yb'ØVYf'gc`W\YJcfZ\`Y'ni'VYhfUW\hYb'''@Uih'Y]bYf'GhiX]Y'XYg'6ibXYgUahYg'ZØfJYfZUggib[ggW\ihn'kifXYb']a'\J\f'&\$&&']b'8YihgW\`UbX'ØVYf%\$\$'6caVYbXfc\ib[Yb'Ub'GW\i`Yb'jYfnY]W\bYhz'kUg'Y]bYb5bgh]Y['ia''\$'i]a'JYf['Y]W\'nia'Jcf'U\f'XUfghY``h'''8]YgYNibU\aY']gh'U`Ufa]YfYbX'ibX'nY][hz'XUgg'GW\i'Yb'U`g'dchYbn]Y``YN]Y`cfhY'nibY\aYb']b'XUg'J]g]Yf'gc`W\Yf'8fc\ib[Yb'[YfUhYb''

8]Y'Dc`]nY]'\Uh'Ui Z'X]YgY'< YfUi gZcfXYfi b[Yb'a]h'j YfghÀf_hYbG]W\Yf\Y]hga U» bU\a Yb'fYU[]Yfh"'+b'j]Y`Yb'GhÀXhYb'Yf[fY]Zh'X]YDc`]nY]'[Ya Y]bgUa 'a]h'XYb'GW\i `Yb'dfÀj Ybh]j Y'A U» bU\a Ybži aUi Z'gc`W\Y'G]hi Uh]cbYb'j cfVYfY]hYh'ni 'gY]b"'8]Yg'i a ZUgghfY[Y`a À»][Y'BchZU``ØVi b[Yb'i bX'GW\i `i b[Yb'ZØf'@Y\fYf'i bXGW\Ø`Yfži a']a'9fbghZU``gW\bY``i bX'g]W\Yf'fYU[]YfYb'ni '_ObbYb"

FYWN hg`U[Y'i bX'?cbgYeiYbnYb'VY] 8fc\ib[Yb

8]Y`fYW\h`]W\Yb`?cbgYeiYbnYb`ZØf`gc`W\Y`8fc\ib[Yb`g]bX Yf\YV`]W\"; Ya À»`XYa `GhfUZ[YgYhnVi W\`fGh; 6Ł'z`%&*ž'5Vg"`%`]gh X]Y`GhÒfi b[`XYg`ÒZZYbh`]W\Yb`:f]YXYbg`Xi fW\`5bXfc\ib[`jcb GhfUZhUhYb`Y]bY`GhfUZhUhž`X]Y`a]h':fY]\Y]hgghfUZY`jcb`V]g`ni`XfY] J\fYbcXYfa]h; Y`XghfUZY'[YU\bXYh'k YfXYb'_Ubb"8]Y
9fa]hhi b[gVY\OfXYb'bY\a Yb'gc`W\Y'8fc\i b[Yb'gY\f'Yfbghi bX
j YfZc`[Yb'X]YgY'a]h'BUW\Xfi W_ži a 'X]Y'GW\i `X][Yb'ni 'Yfa]hhY`b
i bX'X]Y'OZZYbh`]W\Yb'G]W\Yf\Y]hgVY`Ub[Y'ni 'k U\fYb"

; YgY``gW\UZh`]W\Y`FYU_h]cbYb'i bX DfÀj Ybh]cbga U»bU\a Yb

 $8]Y `F Y U_h] cb Yb `]b `XYf `; YgY ``gWX UZh `Ui Z `XYf Ufh][Y `J cfZÅ ``Y `g]b X `cZh [YdfÅ[hij cb `9a d Ôfi b[`i b X `XYa `6Y X ØfZb]g `b UWX `VYggYfYf G]WX Yf \Y]hg`U[Y" `J]Y `Y `9`hYfb `j Yf`Ub[Yb `j cb `XYb `GWXi `Yb `i b X 6Y \ Ôf XYb Ž'A U \> b U \a Yb `ni `Yf[fY]ZYb Ž'i a `]\fY `?]b XYf `ni gWX ØhnYb " \\ \Delta `Y]b][Yb `F Y[]cb Yb `k]f X `XU\Yf `Y]b Y `Yb[YfY Ni gUa a Yb Uf VY]h `nk]g WX Yb `G WXi `Yb Ž Dc `]nY] `i b X ``c_U `Yb 6Y \ Ôf XYb `Ub [YghfYVh" `N]Y ``]gh `Yg Ž'Y]b `gh Uf_Yg `B Yhnk Yf_ `ni f [Y[YbgY]h][Yb `I bh Yfgh Øhni b [`i b X `\Delta Zcfa Uh]cbgk Y]h Yf[UVY `ni Yh UV`]Yf Yb "$

9]b][Y'♣]h]Uh]j Yb'gYhnYb'Ui Z'5i Z_`Àfi b['i bX'
DfÀj Ybh]cbga U» bU\a Ybž'X]Y'?]bXYf'i bX'¾ [YbX`]WXY'XUf]b
gWXi `Ybž'k]Y'g]Y']a ': U``Y'Y]bYf'6YXfc\i b['fYU[']YfYb'gc``hYb"
5i » YfXYa 'k]fX']b'GWXi `Yb'ni bY\a YbX'K Yfh'Ui Z'Y]b'g]WXYfYg'i bX
i bhYfghØhnYbXYg'I a ZY`X'[Y`Y['hž'i a 'XUg'K c\`VYZ]bXYb'XYf
GWXØ`Yf'ni 'ZÒfXYfb"'9g']gh'k]WXh][ž'8]g_i gg]cbYb'ØVYf'G]WXYf\Y]hž
J YfUbhk cfhi b['i bX'XUg'fYWXh`]WXY'FU\a Ybk Yf_'ni 'ZØ\fYbž'XUa]h
GWXØ`Yf'Y]b'VYggYfYg'J YfghÀbXb]g'ZØf'X]Y'GWXk YfY'gc`WXYf
8fc\i b['Yb'Ybhk]W_Y`b"

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["XY