

; Y\Y]a b]ggY`XYf`6fcbnYnY]h.'' "\$\$\$`>U\fY U`hY`; fÀVYf`]b`?fYZY`X`YbhXYW_h

±0??fYZY`XžBcfXf\Y]b!K YghZU`Ybž\UVYb'5fWkÀc`c[Yb'Ub'Y]bYa
VYa Yf_Ybgk YfhYb'C fhžY]bYf'Y\Ya U`][Yb'HUb_ghY``YžY]bY
9bhXYW_i b['[Ya UWkhž'X]Y'X]Y'; YgWk]WkhY'X]YgYf'FY[]cb'i a

₺\\fhUi gYbXY'ni fØW_j YfgYhnh''K Ug'ni bÀWkgh'bUWk'Y]bYa
U``hÀ[`]WkYb'GhUbXcfh'Ui ggU\ž'Ybhdi ddhY'g]Wk'U`g': i bXghÀhhY
Y]bYg'fi bX'' "\$\$\$'₺\\fY'U`hYb'; fÀVYfZY`XYgž'XUg'Ui g'XYf'gdÀhYb
6fcbnYnY]h'ghUa a h''8]YgYf': i bXž'XYf'Y]bY'NY]hdYf]cXY'j cf'≯gi g
7\f]ghi g'i a ZUgghž']gh'b]Wkh'bi f'ZUgn]b]Yfhž'gcbXYfb'Ui Wk'j cb
[fc»Yf'k]ggYbgWkUZh`]WkYf'6YXYi hi b["

8]Y'Gi W\Y'bUW\`\]ghcf]gW\Yb': i bXYb']b'BFK \\Uh'cZh']\fY'HØW_Yb" <]Yf'gh]Y»Yb'X]Y': cfgW\Yf'Ui Z'I fbYbž'X]Y']b'XYf'`Àb[gh j Yf[Ub[YbYb'NY]h'ni f'6YghUhhi b['XYf'JYfghcfVYbYb'j Yfk YbXYh k i fXYb"'5fW\Àc`c[Y'<Ubg!DYhYf'GW\`YhhYf'k Uf'HY]`'XYg'HYUa gž XUg'X]Y', VYffYghY'YbhXYW_hY'' 8]Y'?ca V]bUh]cb'XYf'A i ghYf'i bX X]Y'; YZÀ»Zcfa 'g]bX'bcW\'b]W\h'VY_Ubbh'[Yk YgYb ž'Yf_`AfhY GW\`YhhYfž'XYf'X]Y', VYffUgW\i b['ØVYf'X]Y']bX]j]Xi Y``Y'; YghU`hi b[XYf'I fbYb'XYi h`]W\'qdØfYb'`]Y»"

9]bY'Ui » Yf[Yk Ò\b`]W\Y; fUVghÀhhY

8]Y'9bhXYW_i b['Y]bYg'; fÀVYfZY`XYg']b'; Y``Yd!GhfUhi a 'k]fZh'Y]bbYi Yg'@]W\h'Ui Z'X]Y'UfW\Àc`c[]gW\Yb'JYf\À`hb]ggY']b'?fYZY`X"BcfaU`YfkY]gY'g]bX']b'X]YgYf'; Y[YbX']bgVYgcbXYfY': i bXY'Ui gXYf'fÒa]gW\Yb'NY]h'Xc_i a Ybh]Yfh''Gc']gh'XYf': i bX'XYf'I fbYb'Y]b

VYgcbXYfYgʻ9fY][b]g"'8]Y'; fÀVYf``U[Ybʻi bhYf'V]gʻni ʻnk Y]ʻA YhYf \c\Ybʻ9fX\Ø[Y`bž'X]Yʻ]bʻXYfʻZ`UWXYbʻ@UbXgWXUZhʻXYgʻB]YXYff\Y]bg U`gʻg]WXhVUfYʻ@UbXa Uf_YbʻX]YbhYbžʻ[YgWXUZZYbʻU`gʻGma Vc`YʻZØf X]Yʻ]XYbh]hÀhggh]ZhYbXYʻJYfV]bXi b[ʻXYfʻ; Ya Y]bXYʻa]hʻXYb JYfqhcfVYbYb"

8 UgʻHYUaʻi aʻGW\`YhhYfʻ\UhʻY]b][YʻGW\YfVYbʻXYfʻI fbYb ni gUa a YbgYhnYbʻ_ÒbbYbžʻnY][hˈg]W\ʻYXcW\`VYgcf[hʻØVYfʻXYb Ni ghUbXʻXYfʻ; fÀVYf''ʻ9gʻk]fX`Ub[Ybca a YbžʻXUggʻX]Y 6YghUhhi b[YbʻVYfY]hgʻj cfʻ`Ub[YfʻNY]hʻ[YghÒfh`k i fXYbž'k UgʻX]Y 9fZcfgW\i b[ii bXʻ5bU`mgYʻXYfʻ: i bXYʻ_ca d`]n]YfhYfʻa UW\h''

5 i gk]f_i b[Yb XYf : i bXY

GcVU`X`X]Y`UfW\Àc`c[]gW\Yb`5fVY]hYb`UV[YgW\`cggYb`g]bXž'd`UbhX]Y`GhUXh`?fYZY`Xž'Ub`X]YgYf`GhY``Y`Y]bY`: Yi Yfk Y\fghUh]cb`niYff]W\hYb"`Hfchn`_`UfYf`: cfhgW\f]hhY`]b`XYf`i fVUb]g]YfhYb
I a [YVi b['k]fX`XYf`BUW\\U```XYf`\]ghcf]gW\Yb`9bhXYW_i b['VY]
XYb`6Øf[Yfb`b]W\h`]b`JYf[YggYb\Y]h`[YfUhYb"' 8Ug`<Yfn`XYg
5fW\Àc`c[Yb`\Uh`g]W\`[YZfYi h ž`VYhcbh`GW\`YhhYfž'i bX`X]Y
JYfV]bXi b['nk]gW\Yb`JYf[Ub[Yb\Y]h`i bX'; Y[Ybk Ufh`V`Y]Vh`]b
XYf`9f]bbYfi b['XYf`?fYZY`XYf``YVYbX]["

: Øf'X]Y'5fWkÀc`c[Yb'ghY``h'X]YgYf': i bX'b]Wkh'bi f'Y]bYb
Ui » Yf[Yk Ò\b`]WkYb'9fZc`['XUfž'gcbXYfb'Ui Wk'Y]bY
< YfUi gZcfXYfi b["'; YgWk]WkhY'k]fX'cZh']b'XYb'i bYfk UfhYhghYb
A ca YbhYb'YbhXYW_hž'i bX'X]Y'i bhYf'Y]bYf'HUb_ghY``Y'j YfVcf[YbYb
GWkÀhnY'g]bX'Y]b'Y]bXfi W_gj c``Yg'NYi [b]g'Y]bYf'NY]hž'X]Y
k YgYbh`]Wk'À`hYf']ghž'U`g'j]Y`Y'UbbY\a Yb'k ØfXYb''<]ghcf]gWkY</pre>

: i bXghY``Yb`k]Y`X]YgY`nY][Yb`X]Y`j YfVcf[YbY`H]YZY`XYf ; YgW]W\hY`]b`Y]bYa `UbgcbghYb`a cXYfbYb`l a ZY`X"`?fYZY`X`k]fX Yg`g]W\Yf`]W\`b]W\h``Y]W\hZU``Ybž`]\fY`bYi Y`UfW\Ac`c[]gW\Y 8]a Ybg]cb`ni `][bcf]YfYbž`k A\fYbX`g]Y`]b`X]Y`Ni _i bZh`V`]W_Yb"

?i `hi fY``Y '6YXYi hi b['XYf'; fÀVYf

8]Y '9bhXYW_i b['XYg'; fàVYfZY`XYg']b '? fYZY`X'V]YhYh'b]W\h'bi f
Y]bYb 'ZUgn]b]YfYbXYb '9]bV`]W_']b 'X]Y '6YghUhhi b[gdfU_h]_Yb 'XYf
gdÀhYb '6fcbnYnY]hž'gcbXYfb 'fYZY_h]Yfh'Ui W\'X]Y '_i `hi fY``Yb 'K YfhY
i bX', VYfnYi [i b[Yb 'XYf XUa U`][Yb '; YgY``gW\UZh" '\dot j]Y`Yb 'U`hYb
?i `hi fYb 'k UfYb'; fUVghÀhhYb 'b]W\h'bi f'CfhY 'XYf'Fi \Yž'gcbXYfb
Ui W\'Gma Vc`Y'XYg'gcn]U`Yb 'GhUhi g'i bX'XYf'\dot XYbh]hÀh''8]Y
6Y][UVYbž'k]Y'X]Y '6fcbnY!B]YhYb i bX'XYf'5fa f]b[ž'XYi hYb'XUfUi Z\]bž'XUgg'a Ub'XYb'J YfghcfVYbYb'Ui W\']a 'HcX'F YgdY_h'nc``hY'i bX
]\bYb'XYb'; `Ui VYb'Ub'Y]b'@YVYb'bUW\'XYa 'HcX'ni gW\f]YV"

Ni gÀhn`]W\ k]fX`X]Y`< Ài Z b['j cb`< Ø[Y`b'ØVYf`XYb'; fÀVYfb'U`g Y]bY'5fh'@UbXa Uf_Y'ni bY\a YbX`k]W\h]['ZØf`X]Y'; Ya Y]bgW\UZhYb]b`XYf`FY[]cb"'8]YgY'< Ø[Y``_ÒbbhYb'Y]bY`Fc``Y']b`f]hi Y``Yb DfU_h]_Yb`[Ygd]Y`h'\UVYb`i bX`a UW\hYb`X]Y'; fÀVYf`ZØf`UbXYfY g]W\hVUfž`k Ug`X]Y'9f]bbYfi b['Ub`X]Y`J YfghcfVYbYb'Ui ZfYW\hYf\]Y`h i bX`]\fYb`GhUhi g`]b`XYf'; Ya Y]bgW\UZh`ZYgh][hY"

5_hi Y``Y`5fW\Ac`c[]gW\Y': i bXY`]b 8Yi hgW\`UbX

?fYZY`X`]gh'b]W\h'XYf'Y]bn][Y'Cfh']b'8Yi hgW\`UbXž'XYf'a]h
VYXYi hYbXYb'UfW\Ac`c[]gW\Yb': i bXYb'j cb'\]ghcf]gW\Ya'K Yfh
Ui Zhfi a dZYb'_Ubb'''±b'XYb'`YhnhYb'±J\fYb'k i fXYb'Ub
j YfgW\]YXYbYb'CfhYb']b'8Yi hgW\`UbX'VYY]bXfi W_YbXY'5fhYZU_hY
i bX'GhAhhYb'YbhXYW_hž'X]Y'9]bg]W\hYb']b'X]Y'@YVYbgk Y]gY'i bgYfYf
J cfZU\fYb'V]YhYb'''6Y]gd]Y`gk Y]gY'ZUbXYb'5fW\Ac`c[Yb']b
BcfXf\Y]b!K YghZU`Yb'i bX'UbXYfYb'6i bXYg`AbXYfb', VYffYghY'j cb
G]YX`i b[Yb'cXYf'K UZZYbž'X]Y'j]Y`Y'±J\f\i bXYfhY'U`h'g]bX'i bX
bYi Y'9f_Ybbhb]ggY'@VYf'< UbXY`gfci hYbž
?ca a i b]_Uh]cbgbYhnk Yf_Y'i bX'X]Y'gcn]U`Yb'Ghfi _hi fYb'j cb

 $XUa\ U^{(1)}[Yb^{(1)}, YgY^{(2)}gWXUZhYb^{(1)}Yfa^{(1)}]WXYb^{(1)}$

@Ui h'Y]bYf'Ghi X]Y'XYg'8Yi hgWXYb'5fWXÀc`c[]gWXYb'±bgh]hi hg
nY][Yb'gc`WXY: i bXYž'XUgg'8Yi hgWX`UbX'Y]bY'fY]WXY'i bX
j]Y`ZÀ`h][Y'; YgWX]WXhY'\Uhž'X]Y'cZh'ØVYfgY\Yb'k]fX"'8]YgY
9bhXYW_i b[Yb'g]bX'b]WXhY]bZUWX'bi f'\]ghcf]gWXY'9I dcbUhYž
gcbXYfb'ghY``Yb'JYfV]bXi b[Yb'ni 'i bgYfYb'a cXYfbYb'K i fnY`b\Yfž']bXYa 'g]Y'i bg'X]Y': À\][_Y]hYb'i bX'<cZZbi b[Yb'X]YgYf'U`hYb?i hfYb'bÀ\Yf'Vf]b[Yb"

$5fWAcc[]gWXY'HYWXb]_Yb'ibX']\fY$ 9bhk]W_`ib[Yb

8]YgY 'HYWX bc`c[]Yb 'hfU[Yb 'XUni 'VY]ž'; fUVghÀhhYb 'i bX 'UbXYfY k]WX h][Y': i bXcfhY 'YZZY_h]j Yf'ni ']XYbh]Z]n]YfYb 'i bX 'ni Xc_i a Ybh]YfYbž'k cXi fWX 'k Yfhj c``Y 'F Yggci fWYb'i bX 'NY]h'[YgdUfh k YfXYb"'8]Y '9bhXYW_i b[']b '?fYZY 'X'_ObbhY 'XU\Yf'b]WX h'bi f'Y]b GWX `ØggY``ni f'FY[]cbU`[YgWX]WX hY 'gY]bž'gcbXYfb'Ui WX 'Y]b'6Y]gd]Y` ZØf'X]Y 'bYi Yb'A O[`]WX_Y]hYbž'X]Y 'a cXYfbY '5fWX Ac`c[]Y 'V]YhYhži a XUq'9fVY 'XYf'A YbgWX\Y]h'ni 'VYK U\fYb'i bX'ni 'j YfghY\Yb"

8 Y hU1`a