

@ØbYVif['YbhXYW_Yb.'9]b'FY]gYZØ\fYf'ni GhUXhž'?i`]bUf]_'i bX'BUhi f

9bhXYW_Yb'G]Y'X]Y'W\Ufa UbhY'5`hghUXh'@bYVi f[gž'[Yb]Y $^{\circ}$ YbG]Y'`c_U`Y'GdYn]U`]hÀhYb'i bX'YfZU\fYb'G]Y'a Y\f'ØVYf\]ghcf]gW\Y'GY\Ybgk ØfX][_Y]hYb'i bX'i bj Yf[Ygg`]W\Y J YfUbghU`hi b[Yb"

K]``_ca a Yb`]b`@bYVi f[žY]bYf`XYf`VYnUi VYfbXghYb`GhÀXhY
BcfXXYi hgW\`UbXg°`8]YgY`U`hY`< UbgYghUXh`]gh`b]W\h'bi f`ZØf`]\fY
VYY]bXfi W_YbXY`5fW\]hY_hi f`i bX`]\fY`[YgY``][Y`5ha cgd\ÀfY
VY_Ubbhž'gcbXYfb`V]YhYh`Ui W\`Y]bY`: Ø``Y`j cb`9f`YVb]ggYb`ZØf
YXYb`; YgW\a UW_"`CV`Xi `Xi fW\`X]Y`W\Ufa UbhY`5`hghUXh`a]h`]\fYb
a U`Yf]gW\Yb`; UggYb`gW\`YbXYfghž'X]Y`j]Y`ZÀ`h][Y`_i `]bUf]gW\Y
GnYbY`Yf_i bXYgh`cXYf`]b`X]Y`dUW_YbXY`; YgW\]W\hY`XYf`GhUXh
Y]bhUi W\gh` '@bYVi f[`\Uh`ZØf`YXYb`Yhk Ug`ni `V]YhYb"

± X]YgYa '5fh]_Y` bY\a Yb'k]f'X]W\ a]h'Ui ZY]bY '9bhXYW_i b[gfY]gY Xi fW\ @bYVi f['i bX'nY][Yb'X]f'X]Y 'VYghYb'D`ÀhnYžX]Y 'Xi 'VY] XY]bYa '6Ygi W\ 'b]W\ h'j YfdUggYb'gc``hYgh"'Jcb'Y]b`UXYbXYb FYghUi fUbhgž'X]Y '`c_U`Y'8Y`]_UhYggYb'gYfj]YfYbž'ØVYf'\]ghcf]gW\ Y GY\Ybgk ØfX][_Y]hYbž'X]Y 'gdUbbYbXY'; YgW\]W\ hYb'YfnÀ\`Ybž'V]g \]b'ni 'UhYa VYfUi VYbXYb'BUhi fYf`YVb]ggYb']b'XYf'I a [YVi b['k]f'[UfUbh]YfYbž'XUgg'Xi '@bYVi f['a]h'Y]bYa '@ÀW\Y`b']a '< YfnYb j Yf`UggYb'k]fgh"'I bX'ZØf'U```X]Yž'X]Y'Yhk Ug'`Àb[Yf'V`Y]VYb a ÒW\ hYbž'\UVYb'k]f'Ui W\ 'H]ddg'ZØf'X]Y'VYghYb'I bhYf_ØbZhY'i bX, VYfbUW\ hi b[ga Ò[`]W_Y]hYb"'A UW\ 'X]W\ 'VYfY]hž'@ØbYVi f[']b'U`` gY]bYf'DfUW\ h'ni 'YbhXYW_Yb'

8]Y'W\Ufa UbhY'5`hghUXh'j cb'@ØbYVi f[Yf_i bXYb @ØbYVi f[ž'Y]bY'GhUXh'j c``Yf'; YgW\]W\hY'i bX'7\Ufa Yž'\Uh'g]W\
]\fYb'a]hhY`U`hYf`]W\Yb': `U]f'V]g'\Yi hY'VYk U\fh"8]Y'5`hghUXhž'a]h
]\fYb'gW\a U`Yb'; UggYb'i bX'`]YVYj c```fYghUi f]YfhYb'<Ài gYfbž']gh
XYf'dYfZY_hY'Cfh'ZØf'Y]bYb'[Ya Øh`]W\Yb'GdUn]Yf[Ub["'<]Yf'[]Vh'Yg
gc'j]Y``ni 'YbhXYW_Ybž'XUgg'Xi 'Ua 'VYghYb'[`Y]W\'a]h'XY]bYf
9f_i bXi b['VY[]bbgh'

 $8] Y' < Ui dhghfU > Y \check{z}'Ui W `U`g`5a `GUb X Y `V Y _ Ub bh\check{z}' V]` X Y h' X Ug' < Y fn X Y f' 5 `hghU X h'' 8] Y g Y 'k Y] h' Ài Z] [Y \check{z}' [Y d Z Ugh Y fh Y : `À W Y 'k] f X' j c b] a dcgUb h Y b \check{z}' \] ghcf] g W Y b '; Y V Ài X Y b '[Y g Ài a h \check{z}' X Ufi b h Y f' X] Y k i b X Y f g W \ Ob Y `G h'' > C \ Ub b] g!?] f W Y \check{z}' X] Y 'Y] b Y 'X Y f' À `h Y g h Y b 6 U W _ g h Y] b _] f W Y b 'B c f X X Y i h g W `Ub X g'] g h'' \ \ \ f 'a Uf _ Ub h Y g \check{z}' f c h Y g A Ui Y f k Y f _ 'i b X 'X Y f' \ c \ Y 'H i fa 'g] b X 'g W c b 'j c b 'k Y] h Y a 'g] W h V Uf i b X ``UX Y b 'X] W 'Y] b \check{z}' X] Y '?] f W Y 'n i 'V Y g] W h J [Y b '']$

K À\fYbX:XY]bYg:6i a a Y`g:Xi fWX:X]Y:5`hghUXhik]fghiXi i bk Y][Yf`]WX:Ui Z:X]Y:nU\`fY]WX:Yb;]YVY`\Ài gYf:ghc» Ybž:X]Y:Ui g XYa: "%* "'i bX:%+" '*\J\f\i bXYfh:ghUa a Yb":6YgcbXYfg:X]Y: K UggYfghfU» Y:a]h:]\fYb:a U`Yf]gWX:Yb:: UggUXYb:i bX:XYa WX:Ufa UbhYb:: `U]f:ghY\h:ZØf:X]Y:; YgWX]WX:hY:XYf:GU`nghUXh @ØbYVi f["'8]Y:GhUXhik Uf:Y]bgh:Y]b:k]WX:h][Yf:<UbXY`gdi b_h:ZØf GU`nžik Ug:g]WX:Ui WX:]b:]\fYb:UfWX]hY_hc:b]gWX:Yb:6YgcbXYf\Y]hYb k]XYfgd]Y[Y`h"

6YgcbXYfY'<][\`][\hg']b'XYf'5`hghUXh'g]bX'Ui WX'X]Y'_`Y]bYb
D`ÀhnYž'X]Y'ni a 'JYfk Y]`Yb'Y]b`UXYb"'8Yf'A Uf_hd`Uhn']gh'Y]b
gc`WXYf'Cfhž'k c'XYf'\]ghcf]gWXY'A Uf_h\Ui g'i bX'XUg']a dcgUbhY'
F Uh\Ui g'ghY\Yb"'8Ug'FUh\Ui g'VYY]bXfi W_h'b]WXh'bi f'a]h'gY]bYf
; fÒ» Yž'gcbXYfb'Ui WX'a]h'_i bghj c``Yb'JYfn]Yfi b[Yb'i bX
Y]bXfi W_gj c``Yb'GhUhi Yb"'<]Yf'_Ubbgh'Xi 'cZh'`c_U`Y
J YfUbghU`hi b[Yb'cXYf'A Àf_hY'Yf`YVYb'i bX'XUg'Vi bhY'HfY]VYb'XYf
GhUXh'[Yb]Y» Yb"

 $K Ybb `Xi `Y]b `k Yb][`j cb `XYf `5 `hghUXh `UVk Y]W Yb `a `OW hYghž gc ``hYgh `Xi `X]Y `GW a]YXYghfU > Y `b]W h 'j Yfd UggYb " `8]YgY `GhfU > Y]gh `VYfØ \a h `ZØf `]\ fY `? i bgh\ UbXk Yf_g\ cdgž `]b `XYbYb ``c_U`Y ? Øbgh `Yf `]\ fY `K Yf_Y `Ui gghY ``Yb `i bX 'j Yf_Ui ZYb " '<]Yf `Z]bXYgh `Xi U ``Yg 'j cb `\ UbX[YZYfh][hYa `GW a i W_V]g `ni `Y]bn][Ufh][Yb$

9]b '6Ygi W\ 'XYf'5 `hghUXh'j cb '@bYVi f['k ÀfY'YXcW\ 'b]W\ h j c``ghÀbX]['c\bY'Y]bY'Hci f'Xi fW\ 'XUg'8Yi hgW\ Y'GU`na i gYi a "9g'VYZ]bXYh'g]W\ ']b 'Y]bYa 'Y\Ya U`][Yb 'GU`ngdY]W\ Yf'i bX'V]YhYh ZUgn]b]YfYbXY'9]bV`]W_Y']b 'X]Y'; YgW\]W\ hY 'XYf'GU`ndfcXi _h]cb 'i bX X]Y'9bhk]W_`i b['@bYVi f[g'U`g'GU`nghUXh''8]Y'5i gghY``i b[Yb 'g]bX]bhYfU_h]j 'i bX'V]YhYb 'gck c\``ZØf'9fk UW\gYbY'U`g'Ui W\ 'ZØf'?]bXYf]bhYfYggUbhY' \Rightarrow Zcfa Uh]cbYb"

I a `X]Y '5`hghUXh'j c```Ui gni _cghYbž'gc``hYgh'Xi `Ui W\`X]Y 'j]Y`ZÀ`h][Y ; Ughfcbca]Y 'YbhXYW_Yb" \dir XYb'_`Y]bYb'7UZÅg'i bX'FYghUi fUbhg Ybh`Ub[`XYf'; UggYb'_Ubbgh'Xi ``c_U`Y'GdYn]U`]hÀhYb'dfcV]YfYbž k À\fYbX'Xi `XUg'[YgW\ÀZh][Y'HfY]VYb'VYcVUW\hYgh"'JcbhfUX]h]cbY``Yb'XYi hgW\Yb'; Yf]W\hYb'V]g'ni `\]ddYbž'a cXYfbYb ?fYUh]cbYb']gh\]Yf'ZØf'YXYb'; YgW\a UW_Yhk Ug'XUVY]"

8 Yf'dYfZY_hY'NY]hdi b_h'ZØf'Y]bYb'6Ygi WX 3': fØ\`]b['i bX'Gca a Yfg]bX']XYU'ž'k Ybb'X]Y'GhfU» Yb'a]h'6`i a Yb'i bX'Vi bhYb A Uf_ghÀbXYb'[YgWXa ØW_h'g]bX"'5VYf'Ui WX']a 'K]bhYf'\Uh'X]Y GhUXh']\fYb'[Ubn'Y][YbYb'7\Ufa Y/']bgVYgcbXYfY'XYf K Y]\bUWXhga Uf_h']b'XYf'5`hghUXh'n]Y\h'j]Y`Y'6Ygi WXYf'Ub'i bX`Àggh'X]Y'\]ghcf]gWXY'?i`]ggY'YfghfU\`Yb"

K]Y'Xi 'g]Y\ghž\Uh'X]Y'5`hghUXh'j cb'@bYVi f['gc'j]Y`ni 'V]YhYb"'9g]gh'Y]b'Cfhž'Ub'XYa '; YgWX]WXhY'`YVYbX]['k]fX'i bX'k c'Xi 'X]Y'NY]h j Yf[YggYb'_Ubbgh"'5`gc'gWXbUdd'X]f'XY]bY'? Ua YfUž'n]Y\ VYei Ya Y'GWXi \Y'Ub'i bX'`Ugg'X]WX'j cb'XYf'GWXÒb\Y]h'i bX'XYa 7\Ufa Y'X]YgYf'Y]bn][Ufh][Yb'GhUXh'i YfnUi VYfb°

? i `]bUf]gWX Y '? Ògh`]WX _Y]hY b 'i b X ``c _U`Y Gd Y n]U`]hÀ hY b

8]Y'GhUXh'@bYVif[ž'VY_Ubbh'ZØf']\fY'UhYa VYfUiVYbXY'5`hghUXh i bX'fY]W\Y'; YgW\]W\hYž'V]YhYh'UiW\'Y]bY'J]Y`nU\`'Ub _i `]bUf]gW\Yb'? Ògh`]W_Y]hYbž'X]Y'XYb'; Ui a Yb'YfZfYiYb''<]Yf Z]bXYgh'Xi 'b]W\h'bi f'hfUX]h]cbY``Y'; Yf]W\hYž'gcbXYfb'UiW\]bbcj Uh]j Y'?fYUh]cbYbž'X]Y'X]Y'[Ughfcbca]gW\Y'GnYbY\ VYfY]W\Yfb'''9]b'6YgiW\']b'@bYVif['k\AfY'ibjc``gh\AbX][ž'c\bY'X]Y'c_U`Yb'GdYn]U`]h\AhYb'ni'dfcV]YfYb''

9]b'<][\`][\h']b'XYf'@ØbYVif[Yf'?ØWXY']gh'XYf'GWk Y]bYVfUhYbž XYf'cZh'a]h'Y]bYf'_bi gdf][Yb'?fi ghY'gYfj]Yfh'k]fX"'9f'_ca a h a Y]gh'a]h'Y]bYf'6Y]`U[Y'j cb'Fch_c\`'i bX'?b`OXY`b'Ui Z'XYb H]gWX"'8]YgY'\Yfn\UZhYb'5fca Yb'gd]Y[Y`b'X]Y'fi gh]_U`Y'HfUX]h]cb XYf'FY[]cb'k]XYf'i bX'g]bX'dYfZY_h'ZØf'Y]b'; Ybi gg!9f`YVb]g']b Y]bYa 'XYf'j]Y`Yb'hfUX]h]cbY``Yb'FYghUi fUbhq"

9]b'k Y]hYfYf'`c_U`Yf'?`Ugg]_Yf']gh'XYf'GYbZz'XYf']b'j YfgWX]YXYbYb; YgWXÀZhYb']b'@bYVi f['\Yf[YghY``h'k]fX"'J]Y`Y'_`Y]bY'6Yhf]YVY V]YhYb']\fY'Y][YbYb'GYbZgcfhYb'Ub' 'j cb'gWXUfZ'V]g'gØ»"'8i _Ubbgh'X]YgY'_Ògh`]WXYb'DfcXi _hY'cZh'j cf'Cfh'dfcV]YfYb'i bX'gc[Ufa]h'bUWX'<Ui gY'bY\a Ybž'i a 'XYb'; YgWXa UW_'@bYVi f[g'ni VYk U\fYb"

8]Y'GhUXh']gh'Ui Wa'ghc`n'Ui Z']\fY'6]YfVfUi _i bgh"' \(\Delta\) XYb nU\`fY]WaYb'6fUi YfY]Yb'XYf'FY[]cb'k]fX'Y]b'gWa UW_\UZhYgž fY[]cbU`Yg'6]Yf'[YVfUi hž'XUg'dYfZY_h'ni 'XYb'XYZh][Yb'; Yf]WahYb dUggh"'9]b'VY`]YVhYf'Cfh'ZØf'6]Yf`]YV\UVYf']gh'XUg'6fUi \Ui g @ØbYVi f[ž'kc'Xi 'b]Wah'bi f']\fY'j YfgWa]YXYbYb'GcfhYb dfcV]YfYbž'gcbXYfb'Ui Wa'Ub': Ø\fi b[Yb'hY]`bY\a Yb'_Ubbghž'i a a Y\f'ØVYf'XYb'6fUi dfcnYgg'ni 'YfZU\fYb"

: Øf'JY[YhUf]Yf'i bX'JY[UbYf'V]YhYh'@ØbYVi f['YVYbZU``g
_i `]bUf]gWXY'Cdh]cbYb"'=b'j]Y`Yb'FYghUi fUbhg'k]fgh'Xi '_fYUh]j Y
; Yf]WXhY'Z]bXYbž'X]Y'fY[]cbU`Y'i bX'gU]gcbU`Y'Ni hUhYb'Ui Z[fY]ZYb"
8 Ug'FYghUi fUbh' K]`XYf'? U]gYf ']gh'Y]b'6Y]gd]Y``XUZØfž'k c'Xi
`YW_YfYž'dZ'UbnYbVUg]YfhY'GdY]gYb']b'Y]bYf'[Ya Øh`]WXYb

B UhØf`]W\ 'XUfZ'XYf'7UZÅVYgi W\ 'b]W\ h'ZY\ `Yb°'@bYVi f[']gh
[Ygd]W_h'a]h'W\ Ufa UbhYb'7UZÅgž']b'XYbYb'Xi 'Y]bY'HUggY'?UZZYY
cXYf'HYY'[Yb]Y»Yb'i bX'XUVY]'Y]b'GhØW_'\Ui g[Ya UW\ hYb'?i W\Yb
cXYf'Y]b'GhØW_'hfUX]h]cbY``Yb'6i hhYf_i W\ Yb'dfcV]YfYb'_Ubbgh"
6Y`]YVhY'7UZÅg'k]Y'XUg' 7UZÅ'6`i a 'V]YhYb'Y]bY'[fc»Y'5i gk U\`
Ub'gػYb'JYfgi W\ i b[Yb'i bX'g]bX'XYf'dYfZY_hY'Cfhži a 'Y]bY
DUi gY']a 'GhUXhi Yf_Y\fini 'a UW\Yb"

$9]bV^{M}_{0}bXY^{M}_{0}bYVif[Yf^{G}dYn]U^{h}hhyb$

; Yf]W\\ h	6YgWxfY]Vib[
GWkY]bYVfUhYb	?bi gdf][Yf 6fUhYbžgYfj]Yfh a]h
	Fch_c\`ibX'?b\OXY\b"
<ui g[ya="" gybz<="" td="" uwxhyf=""><td>J]Y`nU\`'Ub</td></ui>	J]Y`nU\`'Ub
	; YgW.a UW_gf]W.hi b[Ybžjcb
	gØ» 'V]g 'gW\ UfZ"
FY[]cbU`Y`6]YfY	: f]gWX [YVfUi h']b ``c_U`Yb
	6fUi YfY]Ybž`]XYU``ni `XYZh][Yb
	; Yf]WXhYb"
8Y[ighUh]cbgaYbØg	GU]gcbU`Y¨i bX`fY[]cbU`Y
	Ni hUhYbʻ]bʻ_fYUh]j Yb
	?ca V]bUh]cbYb"
6i hhYf_i W.Yb	9]bˈgUZh][Yf˙?i WXYbž˙XYf
	VYghYbgʻni a '? UZZYY'd Uggh"

8 UfØVYf`\]bUi g`Z]bXYb`fY[Y`a À»]['K cWXYba Àf_hY`ghUhhž'VY]
XYbYb`Xi 'Zf]gWXY``c_U`Y`DfcXi_hY`i bX`GdYn]U`]hÀhYb`Yfk YfVYb
_Ubbgh"8]YgY`A Àf_hY`g]bX`b]WXh'bi f`]XYU`ž`i a 'X]Y``c_U`Y`?i `hi f
ni 'Yf`YVYbž'gcbXYfb`Ui WX`i a 'X]fY_h'a]h`XYb`9fnYi [Yfb`ni
gdfYWXYb`i bX`a Y\f`ØVYf`X]Y`Ub[YVchYbYb`DfcXi_hY`ni 'YfZU\fYb"
<]Yf`_Ubbgh`Xi 'U``Yg`j cb`Zf]gWXYa 'C Vghii bX'; Ya ØgY`V]g`\]b`ni
gdYn]Y``Yb`8Y`]_UhYggYb`Z]bXYbž'X]Y`Xi 'U`g`Gci j Yb]f`a]h`bUWX
<Ui gY`bY\a Yb`_Ubbgh"

Ni gUa a YbZUggYbX``Àggh'g]W\'gU[Ybž'XUgg'X]Y'_i`]bUf]gW\Yb9f`YVb]ggY']b'@\bYVif['YVYbgc'j]Y`Z\\h]['g]bX'k]Y'X]Y'GhUXh

gY`Vgh"'Jcb`hfUX]h]cbY``Yb'; Yf]W\hYb'ØVYf']bbcj Uh]j Y`GdY]gYb'V]g \]b'ni '_Ògh`]W\Yb'8YggYfhg' 'X]Y'GhUXh`\Uh'ZØf'YXYb'; YgW\a UW_Yhk Ug'ni 'V]YhYb"'9[U`ž'cV'Xi 'Y]b': Y]bgW\a YW_Yf'V]gh'cXYf'Y]bZUW\bifX]Y'fY[]cbU`Yb'GdYn]U`]hÀhYb'dfcV]YfYb'a ÒW\hYghž'@ØbYVif[k]fX'X]W\a]h'gY]bYf'[Ughfcbca]gW\Yb'J]Y`ZU`h'VY[Y]ghYfb"

<]ghcf]gWX Y 'GY\Ybgk ØfX][_Y]hYb 'i bX']\fY ; YgWX]WX hYb</pre>

@bYVi f[ž'a]h'gY]bYf'fY]WXYb'; YgWX]WXhY'i bX'VYY]bXfi W_YbXYb 5fWX]hY_hi fž'V]YhYh'Y]bY'J]Y`nU\``Ub'\]ghcf]gWXYb GY\Ybgk @fX][_Y]hYbž'X]Y'XUfUi Z'k UfhYbž'YbhXYW_h'ni 'k YfXYb'' \Rightarrow XY'9W_Y'XYf'GhUXh'YfnÀ\`h']\fY'Y][YbY'; YgWX]WXhYž'j cb'XYb [`Ubnj c``Yb'HU[Yb'XYf' < UbgY'V]g'ni f'A cXYfbY''' <]Yf'g]bX'Y]b][YXYf'i bj Yf[Ygg`]WXghYb'\]ghcf]gWXYb'GhÀhhYbž'X]Y'Xi 'b]WXh j YfdUggYb'gc``hYgh.

- A Uf_hd`Uhn. '8Yf`nYbhfU`Y`A Uf_hd`Uhn'j cb`@ØbYVi f[žia [YVYb'j cb'[i h'Yf\U`hYbYb';]YVY`\Ài gYfbž']gh'Y]b dYfZY_hYf'Cfhžia ']b'X]Y'; YgWX]WXhY'XYf'GhUXh Y]bni hUi WXYb"'<]Yf'Z]bXYh'fY[Y`a À»]['Y]b'K cWXYba Uf_h ghUhhž'XYf'Ui WX'j cb'9]b\Y]a]gWXYb'[YgWXÀhnh'k]fX"
- 8]Y'Gh"'B]Wc`U]'?]fWXY.'A]h']\fYb'\c\Yb'HØfa Yb'i bX'XYf VYY]bXfi W_YbXYb'[ch]gWXYb'5fWX]hY_hi f']gh'X]Y'Gh"'B]Wc`U] ?]fWXY'Y]bY'XYf'VYXYi hYbXghYb'?]fWXYb'@bYVi f[g"'8]Y ?]fWXY'k i fXY']a'%("'\\\f\i bXYfh'YfVUi h'i bX'\Uh'X]Y GhUXh'ØVYf'\\\f\i bXYfhY'\]bk Y['VY['Y]hYh'
- 8 Ug 5 hY F Uh\ Ui g. 8]YgYg'dfUW\ hj c "Y; YVÀi XY]a gdÀh[ch]gW\ Yb Gh]]gh b] W\ h bi f Y] b UfW\]hY_hcb]gW\ Yg A Y]ghYfk Yf_ž'gcbXYfb Ui W\ Y]b Gma Vc "ZØf'X]Y A UW\ h i bX XYb K c\ ghUbX XYf GhUXh k À\ fYbX XYf' < UbgYnY]h" 8 Yf \dip bYb\cZ" ÀXh ni a "J Yfk Y] Yb Y]bž'i bX]bhYfYggUbhY : Ø\ fi b[Yb [Yk À\ fYb 9]bV]W_Y]b X]Y; YgW\]W\ hY"</p>
- 8 Yf'K UggYfhi fa . 18]YgYf'Hi fa ž'XYf'Ui g'XYa '%- "

 **J\f\i bXYfh'ghUa a hž'V]YhYh'Y]bYb'[fc ** Ufh][Yb'5i gV`]W_

 ØVYf'X]Y'GhUXh'i bX']gh'Y]b'VY`]YVhYg': chca ch]j "'8 Yf

 K UggYfhi fa 'YfnÀ\`h'X]Y'; YgWX]WXhY'XYf

 K UggYfj Yfgcf[i b[']b'@ØbYVi f['i bX'gY]bYf'9bhk]W_`i b[

la "@Ui ZY "XYf" *J\fY"

- 8]Y? UZZYYa Ubi ZU_hi f. B]W\h'bi f'ZØf'? UZZYY!@]YV\UVYf
]gh'X]Y? UZZYYa Ubi ZU_hi f']b'XYf'Y\Ya U`][Yb': UVf]_'j cb
 @ØbYVi f['Y]bYb'6Ygi W\'k Yfh'' <]Yf'YfZU\fYb'6Ygi W\Yf
 U``Yg'ØVYf'X]Y'; YgW\]W\hY'XYg'? UZZYYg'i bX'gY]bY
 6YXYi hi b['ZØf'X]Y'GhUXh'i bX']\fY'K]fhgW\UZh''
- 8]Y @ØbYVi f[Yf'GU`]bY. '±b'XYf'GU`]bY'k i fXY'XUg'GU`nž
 ZØf'XUg'X]Y 'GhUXh'VYfØ\a h']ghž'gY]h'↓J\f\i bXYfhYb
 [Yk cbbYb"'< Yi hY']gh'X]Y'GU`]bY'Y]b'A i gYi a ž'XUg'X]Y
 ; YgWX]WXhY'XYf'GU`ndfcXi _h]cb'i bX'XYfYb'5i gk]f_i b[Yb
 Ui Z'@ØbYVi f['nY][h"

 $\begin{tabular}{ll} $\times XY'X]YgYf'GY\Ybgk \varnothing fX][_Y]hYb']gh'b]Wkh'bi f'Y]b'6`]W_ZUb[\check{z}$ gcbXYfb'V]YhYh'Ui Wk'ZUgn]b]YfYbXY'9]bV`]W_Y']b'X]Y'; YgWk]WkhY i bX'?i`hi f'XYf'FY[]cb"'I a 'XUg'j c``Y'9f`YVb]g'ni '[Yb]Y\xidon Yb\zeron' gh'Yg fUhgUa \zeron' g]Wk'NY]h'ni 'bY\a Yb'i bX'X]Y'; YgWk]WkhYb'\]bhYf'X]YgYb \]ghcf]gWkYb'CfhYb'ni 'YfZcfgWkYb"$

8]Y; YgWX]WX hYb:\]bhYf:XYb:A Ui Yfb

=bhYfU_h]i Y 9f`YVb]qqY

8]Y`\]ghcf]gW\Y`?i`]ggY`@ØbYVif[g`V]YhYh`b]W\h`bif
VYY]bXfiW_YbXY`GY\Ybgk ØfX][_Y]hYbž`gcbXYfb`UiW\`]bhYfU_h]jY
9f`YVb]ggY"`J]Y`Y`X]YgYf`CfhY`V]YhYb`: Ø\fib[Yb`Ubž`VY]`XYbYb
6YgiW\Yf`Uig`YfghYf`<UbX`aY\f`ØVYf`X]Y`ZUgn]b]YfYbXYb
; YgW\]W\hYb`YfZU\fYb`_ObbYb"

 $6 YgcbXYfg'VY`]YVh'g]bX'X]Y'`]ghcf]gWXYb'GhUXhZØ\fib[Ybž'VY] XYbYb'cfhg_ibX][Y'; i]XYg'X]Y'; ÀghY'XifWX'X]Y'jYfk]b_Y`hYb; UggYb'ZØ\fYb'ibX'gdUbbYbXY'5bY_XchYb'ØVYf'X]Y GhUXh[YgWX]WXhY'YfnÀ\`Yb''8]YgY': Ø\fib[Yb'g]bX'gckc\`'ZØf; YgWX]WXhg`]YV\UVYf'U`g'UiWX'ZØf'BYi`]b[Y'[YY][bYhž'XU'g]Y]bhYfYggUbhY'DYfgdY_h]jYb'ibX'5bg]WXhYb'Uig'jYfgWX]YXYbYb9dcWXYb'jYfY]bYb''$

GY\Ybgk ØfX][_Y]h	6Ui U\f	6YgcbXYf\Y]hYb
A Uf_hd`Uhn	%' "'*\\f\i bXYfh	NYbhfU`Y
		JYfUbghU`hib[gcfh
		ZØf'AÀf_hY
Gh" B]Wc`U] ?]fWXY	%("ˈᢣJ\f\i bXYfh	; ch]gW\Y
		5fWX]hY_hi fž
		VYY]bXfi W_YbXY
		: fYg_Yb
5`hYg'FUh\Uig	%&' \$	GdÀh[ch]gWXY
		: UggUXYž
		\]ghcf]gW\Yg
		GhUXha i gYi a
K UggYfhi fa	%, , ,	5i gg]Wkhgdi b_hž
		GhYW_Vf]YZ [·] XYf
		K UggYfYbhk]W_`i b[
?UZZYYa Ubi ZU_hi f	%- "`*J\f\i bXYfh	<]ghc f]gWX Y
		?UZZYYdfcXi_h]cbž
		: ∅\fi b[Yb
@byvif[Yf'GU`]by	%%"⁻划\f\i bXYfh	GU`n[YgWX]WXhYž
]bhYfU_h]jY
		5i gghY``i b[Yb

 $: \emptyset f`XUg`VYghY`9f`YVb]g\check{z}`VYgi~WXY`X]YgY``\]ghcf]gWXYb`GhAhhYb`Ua~VYghYb`Ub`Y]bYa~`K~cWXYbYbXY`cXYf`VY]`: YghYb\check{z}`X]Y`cZh$

VYgcbXYfY'JYfUbghU`hi b[Yb'i bX': Ø\fi b[Yb'UbV]YhYb"'8]Y?ca V]bUh]cb'Ui g'; YgW\]W\hYž'?i `hi f'i bX'`YVYbX][Yf'5ha cgd\ÀfYa UW\h'@\bYVi f['ni 'Y]bYa 'i bj Yf[Ygg`]W\Yb'FY]gYn]Y`"

BUhi fYf`YVb]ggY`i bX`K cW\YbYbX!5i gZ`Ø[Y]b`XYf`l a [YVi b[

@ØbYVi f[']gh'b]W\h'bi f'ZØf'gY]bY'W\Ufa UbhY'5`hghUXh'VY_Ubbhž gcbXYfb'Ui W\'ZØf'X]Y'UhYa VYfUi VYbXY'BUhi fž'X]Y'g]W\']b i ba]hhY`VUfYf'BÀ\Y'XYf'GhUXh'VYZ]bXYh''CV'Xi '[YfbY'k UbXYfghž FUX'ZÀ\fgh'cXYf'Y]bZUW\'bi f'X]Y'Zf]gW\Y'@ Zh'[Yb]Y»Yb'a ÒW\hYghž X]Y'I a [YVi b['j cb'@ØbYVi f['\Uh'j]Y`ni 'V]YhYb'''<]Yf'g]bX'Y]b][YXYf'VYghYb'BUhi fYf`YVb]ggY'i bX'K cW\YbYbX!5i gZØ[Yž'X]Y'Xi ']b XYf'FY[]cb'i bhYfbY\a Yb'_Ubbqh''

@ObYVif[Yf'<Y]XY

I ba]hhY`VUf'j cf'XYb'HcfYb'XYf'GhUXh'`]Y[h'X]Y'k i bXYfgW\ObY@ObYVi f[Yf'<Y]XYZ'Y]b'k Y]h`Ài Z][Yg'BUhi fgW\i hn[YV]Yhz'XUg'g]W\dYfZY_h'ZØf'Y]bYb'HU[YgUi gZi ['Y][bYh''8]YgY'Y]bn][Ufh][Y</p>
Y]XY`UbXgW\UZh'V]YhYh'b]W\h'bi f'UhYa VYfUi VYbXY'5i gV`]W_Yz'gcbXYfb'Ui W\nU\`fY]W\Y'K UbXYf!'i bX'FUXk Y[Y''6YgcbXYfg']a
Gca a Yf'V`Ø\Yb'X]Y'<Y]XYdZUbnYb'i bX'j Yfk UbXY`b'X]Y'; Y[YbX]b'Y]b'a U`Yf]gW\Yg'`]`U'A YYf''6Ygi W\Y'XUg'6Ygi W\YfnYbhfi a ']b</p>
XYf'BÀ\Y'j cb'I bXY`c\'i bX'`Ugg'X]W\'ØVYf'X]Y': `cfU'i bX': Ui bUX]YgYf'FY[]cb']bZcfa]YfYb'''<]Yf'[]Vh'Yg'Ui W\'[YZØ\fhY'Hci fg'ZØfBUhi fZfYi bXY'

8]Y '= a YbUi 'Ybh`Ub[

8]Y = a YbUi žY]b a U`Yf]gW.Yf: `i ggž'k]bXYh'g]W. Xi fW. X]Y @UbXgW.UZh'fi bX i a @ØbYVi f[ii bX'V]YhYh'nU\`fY]W.Y
A Ò[`]W_Y]hYb ZØf'K UggYfgdcfh'i bX'YbhgdUbbhY GdUn]Yf[Àb[Y"8i _Ubbgh'Y]b ? Ubi a]YhYb ii bX'X]Y GhfYW_Y gY`Vgh'dUXXY`b cXYf'X]Y I a [YVi b[a]h'XYa FUX'Yf_i bXYb"5b'j]Y`Yb'GhY``Yb'[]Vh'Yg _`Y]bY'D]W_b]W_d`ÀhnYž'X]Y'g]W. ']XYU` ZØf'Y]bY'5i gnY]h']b'XYf'BUhi f Y][bYb" < U`hY'5i ggW.Ui bUW. XYb'j]Y`ZÀ`h][Yb'J c[Y`UfhYb'i bX j]Y``Y]W.h'g]Y\gh'Xi 'gc[Uf'XYb'Y]b'cXYf'UbXYfYb':]gW.fY]\Yf"

8YfBUhifdUf_@DbYVif[Yf'<Y]XY

K UbXYfi b['ni a 'K]`gYXYf'6Yf[

: Øf`X]Y`5VYbhYi Yf`i gh][Yb`i bhYf`Yi WX`]gh`Y]bY`K UbXYfi b['ni a
K]`gYXYf`6Yf['Y]b`UVgc`i hYg`A i gg"`A]h`%* - ž&`A YhYfb`]gh`Yf`X]Y
\`OWXghY`9f\YVi b['XYf`@\bYVi f[Yf`<Y]XY`i bX`V]YhYh
UhYa VYfUi VYbXY`5i gV`]W_Y`\ØVYf`X]Y`k Y]hY`@UbXgWXUZh"`8]Y
K UbXYfi b[']gh`b]WXh`VYgcbXYfg``Ub[ž`UVYf`XYf`K Y['_Ubb
\YfUi gZcfXYfbX`gY]bž`]bgVYgcbXYfY`]b`XYb`k Àfa YfYb`A cbUhYb"
J Yf[]gg`b]WXhž`Ui gfY]WXYbX`K UggYf`a]hni bY\a Yb`i bX`X]Y
ZUgn]b]YfYbXYb`5i gV`]W_Y`Ui Z`XYa ;]dZY``ni `[Yb]Y»Yb"</pre>

5_h]j]hÀh	Cfh	6YgcbXYf\Y]hYb
?Ubi ZU\fYb	=`a YbUi	JYfa]Yhib[']b'XYf
		GhUXhž [·]]XYU`Y
		D]W_b]W_d`ÀhnY
K UbXYfb	BUhifdUf_	J]Y`ZÀ`h][Y`FcihYbž
	@ØbYVif[Yf' <y]xy< td=""><td>[YZØ\fhY'HcifYb</td></y]xy<>	[YZØ\fhY'HcifYb
FUXhci f	@ØbYVif[Yf' <y]xy< td=""><td>GWN Òb Y 'F UX k Y [Y ž</td></y]xy<>	GWN Òb Y 'F UX k Y [Y ž
		FUXj Yf`Y]\ ']b 'XYf
		GhUXh
6Ygi W. XYg K] gYXYf	K]`gYXY	DUbcfUa UV`]W_ž
6Yf[Yg		K UbXYfk Y[Y

FUXZU\fYb']a 'BUhi fdUf_

9]b k Y]hYfYg \Yfj cffU[YbXYg 9f YVb]g]gh XUg F UXZU\fYb]a
B Uhi fd Uf_"; i h Ui g[YVUi hY K Y[Y ZØ\fYb Xi fW X]Y
< Y]XY UbXgW UZh i bX V]YhYb X]f X]Y A Ò[`]W _Y]hž X]Y F Y[]cb]b
XY]bYa Y][YbYb HYa dc ni Yf_i bXYb "J]Y Y GhfU» Yb g]bX UVgY]hg
XYg J Yf_Y\fgž gc XUgg Xi X]Y B Uhi f]b F i \Y [Yb]Y » Yb _Ubbgh" 9g
[]Vh j YfgW]YXYbY F ci hYbž X]Y j cb `Y]W h V]g Ubgd fi W gj c``

fY]WXYb":8Yb_Y:XUfUbž:XY]bY:?Ua YfU:a]hni Vf]b[Ybž:i a :X]Ya U`Yf]gWXYb:@UbXgWXUZhYb:ZYghni \U`hYb°

8]Y'Accf`UbXgWXUZhYb'VY]'6]YbYbVØhhY`
9hk Ug'k Y]hYf'YbhZYfbhž'UVYf'i bVYX]b[h'Y]bYb'6Ygi WX'k Yfhž'g]bX
X]Y'Accf`UbXgWXUZhYb'VY]'6]YbYbVØhhY`"8]YgY'Y]bn][Ufh][Yb

2_cgmghYa Y'V]YhYb'Y]bY'k Yfhj c``Y'J]Y`ZU`h'Ub'DZ'UbnYb'i bX
H]YfYb"'9g'[]Vh'gdYn]Y``Y'K UbXYfk Y[Yž'X]Y'Xi fWX'X]Y'AccfY
ZØ\fYbž'i bX'Xi _Ubbgh'a]h'Yhk Ug'; `ØW_'j YfgWX]YXYbY'H]YfUfhYb
VYcVUWXhYb"'\DZcfa]YfY'X]WX'j cf'XY]bYa '6Ygi WX'ØVYf'[YZØ\fhY
Hci fYbž'X]Y'cZh'X]fY_h'j cf'Cfh'Ub[YVchYb'k YfXYb"

: Un]h

8]Y'l a [YVi b['j cb'@bYVi f[']gh'Y]b'k U\fYg'BUhi fdUfUX]Ygž'XUg ZØf'YXY'5fh'j cb'Ci hXccf!@]YV\UVYf'Yhk Ug'ni 'V]YhYb'\Uh"'9[U`ž'cV Xi 'Y]bYb'YbhgdUbbhYb'HU['Ua 'K UggYfž'Y]bY'UVYbhYi Yf`]W\Y K UbXYfi b['cXYf'Y]bY'FUXhci f'Xi fW\'X]Y'<Y]XY'VYj cfni [gh' '\]Yf Z]bXYgh'Xi 'X]Y'dYfZY_hY'5_h]j]hÀhži a 'X]Y'GW\Òb\Y]h'XYf'BUhi f'ni Yf`YVYb"'D`UbY'XY]b'K cW\YbYbXY'[i hi bX'[Yb]Y»Y'U``X]Y k i bXYfVUfYb'9f`YVb]ggYž'X]Y'@bYVi f['i bX'gY]bY'l a [YVi b[VYfY]h\À`h°

J YfUbghU`hi b[Yb i bX : YghYž'X]Y Xi 'b]WX h j YfdUggYb 'gc``hYgh

@bYVi f[žY]bY GhUXhij c``Yf'; YgWX]WX hY i bX 7 \ Ufa YžV]YhYhiXUg [UbnY '\\ \f'\ØVYf'Y]bY 'J]Y`nU\``j cb' J YfUbghU`hi b[Yb'i bX': YghYbž X]Y 'gck c\``9]b\Y]a]gWXY'U`g'Ui WX '6Ygi WXYf'VY[Y]ghYfb"'K Ybb'Xi bUWX 'Y]bYf'A Ò[`]WX_Y]h'gi WXghž']b'X]Y'?i `hi f'i bX'XUg'@YVYb'XYf GhUXh'Y]bni hUi WXYbž'XUbb'q]bX'X]YgY'9j Ybhq'Y]b'UVqc`i hYq'A i gq"

9]b k Y]hYfYg VY`]YVhYg 9j Ybh']gh XYf K Y]\b UW hga Uf_hž XYf bcfa U`Yfk Y]gY 9bXY Bcj Ya VYf VY[]bbh'i bX V]g'_i fn'j cf K Y]\b UW hYb `XUi Yfh'' 8 Yf A Uf_h VY\YfVYf[h'nU\`fY]W Y GhÀb XY a]h`\UbX[Ya UW hYb'; YgW Yb_Ybž_i `]bUf]gW Yb'? Ògh`]W _Y]hYb i bX k Ufa Yf'; `Ø\k Y]b']gh'\]Yf Y]b A i gg'' 8]Y ZYgh`]W `XY_cf]YfhY 5 `hghUXh'k]fX']b `X]YgYf NY]h'ni `Y]bYa `k U\fYb `K]bhYfk i bXYf`UbXž XUg b]W h'bi f'X]Y < YfnYb `XYf'?]bXYf'\Ò\Yf gW `U[Yb ``Àgghž gcbXYfb 'Ui W '9fk UW gYbY]b Y]bY VYg]bb`]W Y Gh]a a i b[j YfgYhhh'' 6 YgcbXYfg 'X]Y `\]ghcf]gW Yb' ?i `]ggYb'j Yf`Y]\Yb `XYa A Uf_h'Y]bYb'[Ubn'VYgcbXYfYb': `U]f"

8]Y'@ØbYVif[Yf'A Àf_hY'g]bX'Y]b'k Y]hYfYf'ZYghYf'6YghUbXhY]`
XYf'_i`hifY``Yb'\RYbh]hÀh'XYf'GhUXh"'\RYXYb'A]hhkcW\'ibX'GUaghU[
_Ubbgh'Xi'UiZ'XYa'U`hYb'AUf_hd`Uhn'`c_U`Y'DfcXi_hYž'Zf]gW\
[YZUb[YbYb':]gW\'ibX'6`iaYb'YfghY\Yb"'8]YgY'AÀf_hY'g]bX'Y]b
[fc\RYbf][Yf'Cfhž'ia'a]h'9]b\Y]a]gW\Yb']bg'; YgdfÀW\'ni'_caaYb
ibX'aY\f'ØVYf'X]Y'_i`]bUf]gW\Yb'6YgcbXYf\Y]hYb'XYf'FY[]cb'ni
YfZU\fYb"

K Ybb 'Xi 'Ub 'Gdcfh']bhYfYgg]Yfh'V]ghž 'gc ``hYgh'Xi 'XUg'GhUXhZYgh']a 5i [i gh'b]Wkh'j YfdUggYb"'8]Y'[UbnY'GhUXh'k]fX'ni a 'GWkUi d`Uhn ZØf'j YfgWk]YXYbY'gdcfh`]WkY'5_h]j]hÀhYbž'XUfi bhYf'Y]b'GhUXh`Ui Zž FUXfYbbYb'i bX'FØW_k Àfhg`Ui ZYb"'8]Y'HY]`bU\a Y']gh'ZØf'U``Y 5`hYfg[fi ddYb'a Ò[`]Wk'i bX'gcf[h'ZØf'Y]b'[Ya Y]bgWkUZh`]WkYg ; YZØ\`ž'k À\fYbX'g]Wk'X]Y'6Yj Ò`_Yfi b['i bX'X]Y'6Ygi WkYf @ØbYVi f[g'U_h]j']a ': fY]Yb'VYk Y[Yb"

6YgcbXYfg`gdUbbYbX`]gh`XUg`GWX ØhnYbZYghž`XUg`]b`XYf`FY[Y``]aGdÀhgcaaYf`ghUhhZ]bXYh"\8]Yg`]gh`Y]bY`HfUX]h]cbž`X]Y`h]YZ`]b`XYf@ØbYVif[Yf'; YgWX]WXhY`j YfUb_Yfh`]gh"\9g`VYghY\h`Uig: Yghian@[Ybž'hfUX]h]cbY``Ya`GWX ØhnYbk YgYb`ibX`YXYf`AYb[Y:Y]Yf`]WX_Y]hYb"\8]Y`GWX ØhnYbnØ[Y`n]Y\Yb`XifWX`X]Y`GhUXhž\VY[`Y]hYh'jcb`6`Ugaig]_'ibX`ZfÒ\`]WXYa`; Y`ÀWXhYf"

JYfUbghU`hib[AcbUh	6YgcbXYf\Y]hYb
K UggYfa i g]_	·	⇒bhYfbUh]cbU`Y
: Ygh]j U`		?Øbgh`Yfž¹a Y∖fYfY
		6Ø\bYb
K Y]\bUW\hga Uf_h	Bcj Ya VYf!	< UbX[Ya UWXhY
	8YnYa VYf	; YgW\Yb_Yž
		; `Ø\k Y]b
@byvif[YfAÀf_hy	8Ugʻ[UbnYʻIJ\f	: f]gVX Y
		@YVYbga]hhY`ž``c_U`Y
		DfcXi _hY
GhUX hZY gh	5i [i gh	Gdcfh`]WXY
		5_h]j]hÀhYbž
		; Ya Y]bgW\UZhg[YZØ\
GWX ØhnY b ZY gh	5i[igh	HfUX]h]cbž
		: Yghi a nØ[Y

9]b k Y]hYfYg 'À\f`]W k]YXYf_Y\fYbXYg '9fY][b]g ']gh'X]Y '@c b [
B][\h'c Z'7i `hi fYž'VY] 'XYf'A i gYYbž'; U`Yf]Yb 'i bX'_i `hi fY``Y

=bgh]hi h]cbYb 'V]g ']b 'X]Y 'gdÀhYb 'Ghi bXYb 'ZØf'6Ygi W\Yf'[YÒZZbYh
g]bX" 8]Yg 'V]YhYh'X]Y 'dYfZY_hY'; Y`Y[Yb\Y]hž'X]Y '? i bghgnYbY

@ØbYVi f[g'ni 'Yf_i bXYbž'cZh'a]h'VYgcbXYfYb '5i gghY``i b[Yb'i bX
@]j Y!J YfUbghU`hi b[Ybž'X]Y 'bi f'Ub'X]YgYa '5VYbX'ni 'gY\Yb'g]bX"

@Ugh'Vi h'bch``YUghž'XUg'6i XXY`b`VY]'XYf'@ØbYVi f[Yf'<Y]XYž Y]b'9j Ybhž'XUg'BUhi f`]YV\UVYf'i bX'5VYbhYi Yf`i gh][Y'Ubn]Y\h" <]Yf'_Ubbgh'Xi 'a Y\f'ØVYf'X]Y'VYY]bXfi W_YbXY': `cfU'i bX': Ui bU XYf'@ØbYVi f[Yf'<Y]XY'`YfbYb'i bX'Ub'[YZØ\fhYb'K UbXYfi b[YbhY]`bY\a Ybž'X]Y'j cb'YfZU\fYbYb'BUhi fZØ\fYfb'[Y`Y]hYh'k YfXYb"

 $8\,]Y\,'J\,YfUbghU`hi\,b[\,Yb\,'i\,bX\,':\,YghY\,']b\,'@/bYVi\,f[\,\,'g]bX\,'b]W\!\!,h'bi\,f\,'Y]b$

: YbghYfini fi?i `hi fiXYfiFY[]cbžig]Y 'V]YhYb 'Ui WX 'j]Y `Y ; Y`Y[Yb\Y]hYbž'bYi Y': fYi bXY'ni 'Z]bXYb 'i bX'i bj Yf[Ygg`]WXY 9f]bbYfi b[Yb'ni 'gUa a Y`b"'D`Ub'XY]bY'FY]gY'U`gc'gcž'XUgg'Xi Y]bYg'cXYfia Y\fYfY'X]YgYf'9j Ybhg'Yf`YVYb'_Ubbgh°

$H]ddg^{T}ZØf^{T}X]Y^{T}VYghYb^{T}bhYf_{\emptyset}bZhY^{T}ibX$, $VYfbUWXhib[ga\dot{O}[\dot{Y}]WX_Y]hYb$

@ØbYVif["V]YhYhY]bY"J]Y`nU\``jcb`IbhYf_ØbZhYbžX]Y`gckc\``XYb6YXØfZb]ggYb'jcb'6iX[YhfY]gYbXYb'U`g'UiW\'jcb@iig`]YV\UVYfb'[YfYW\h'kYfXYb"'<]Yf'Z]bXYgh'Xi'Y]bY'5igkU\`Ub'<chY`gž'DYbg]cbYb'ibX':Yf]Ybkc\bib[Ybž'U``YgUah']XYU`[Y`Y[Ybž'ia'X]Y'W\UfaUbhY'5`hghUXh'ibX']\fY'Ia[YVib['niYf ibXYb"

%" < chY`g`]a < YfnYb XYf GhUXh

8]Y'5`hghUXh'j cb'@bYVi f[']gh'VYgcbXYfg'VYnUi VYfbX'i bX'Yg'[]VhY]b][Y'\Yfj cffU[YbXY'<chY`gž'X]Y'Y]bYb'X]fY_hYb'Ni [Ub['ni 'XYbk]Wkh][ghYb'GY\Ybgk ØfX][_Y]hYb'V]YhYb"'<]Yf'g]bX'Y]b][Y9a dZY\`i b[Yb.

- < chY`'5`hYg'? Ui Z\ Ui g' '8]YgYg'\]ghcf]gW\'fYbcj]YfhY < chY`'V]YhYha cXYfbYb'? ca Zcfh']b'Y]bYa kibXYfgW\`ObYbž\]ghcf]gW\Yb'; YVÀi XY"'9g']gh'dYfZY_h [Y`Y[Ybž'i a 'X]Y'gW\`ObYb'; UggYb'j cb'@ØbYVi f['ni Yf_i bXYb"</p>
- DUf_ '=bb'Vm'FUX]ggcb'@bYVif[''9]b'acXYfbYg'<chY`a]h'Y]bYa'ZUbhUgh]gW\Yb'6`]W_'UiZ'X]Y'U`hY'GhUXhaUiYf"
 =XYU`ZØf'FY]gYbXYž'X]Y'gckc\`'?caZcfh'U`g'UiW\'Y]bY
 [ihY'@U[Y'k ØbgW\Yb"
- < chY`'@ØbYVi f[Yf'< cZ'''9]b'W\Ufa UbhYg'(!GhYfbY!< chY` a]h'[Ya Øh`]W\Yb'N]a a Yfb'i bX'Y]bYa 'hc``Yb : fØ\ghØW_gVi ZZYhž'bi f'k Yb][Y'; Y\a]bi hYb'j cb'XYf +bbYbghUXh'YbhZYfbh"

&"; Ya Øh`]WXY DYbg]cbYb i bX; AghY\Ai gYf

K Ybb'Xi 'Y]bY'dYfgÒb`]W\YfY'5ha cgd\ÀfY'VYj cfni [ghžg]bX'X]Y [Ya Øh`]W\Yb'DYbg]cbYb'Y]bY'hc``Y'K U\`"'C Zh'V]YhYb'g]Y'`c_U`Y; UghZfYi bXgW\UZh'i bX'Y]b][Y'gc[Uf'gY`Vgh[Ya UW\hY': fØ\ghØW_Y"

- DYbg]cb '? fUb]WX Y ' '8]YgY 'DYbg]cb 'VYZ]bXYh'g]WX ']b
 fi \][Yf'@U[Y 'i bX 'V]YhYh'_ca ZcfhUV`Y 'N]a a Yf'gck]Y 'Y]b
 \Yfn`]WX Yg'5a V]YbhY"
- < chY``6Yf[ghfÒa ' '9]b'Y`Y[UbhYg'< chY`ž'XUg']b'Y]bYa
 U`hYb'GdY]W\Yf'i bhYf[YVfUW\h']gh'i bX'Y]bY'k i bXYfVUfY
 A]gW\i b['Ui g'; YgW\]W\hY'i bX'a cXYfbYa '8Yg][b'V]YhYh''</pre>

'": Yf]Ybk c\bi b[Yb ZØf: Ua]`]Yb i bX; fi ddYb

 $: \varnothing f : Ua]`]Yb`cXYf'; \ fi \ ddYb'j \ cb': fYi \ bXYb`_ ObbYb \\ : Yf]Ybk \ c \ bi \ b[Yb 'Y]bY ' \ Yfj \ cffU[YbXY`Cdh]cb'gY]b"`G]Y`V]YhYb \\ a \ Y \ f`D`Uhn`i \ bX`cZh'X]Y`A O[`]WX_Y]hž'Y][YbY`A U \ `nY]hYb \\ ni \ ni \ VYfY]hYb"$

- : Yf]Ybk c\bi b['Ua 'K UggYfhi fa ' '9]bY'[YfÀi a][Y i bX'[i h'Ui g[YghUhhYhY'K c\bi b[']b'Y]bYa 'U`hYb ; YVÀi XYž']XYU`'ZØf'[fc»Y'; fi ddYb"
- C`X'Hck b'5dUfha Ybh' '8]fY_h']b'XYf'5`hghUXh'[Y`Y[Ybž V]YhYh'X]YgY': Yf]Ybk c\bi b['Ui gfY]W\YbX'D`Uhn'i bX'Y]bY j c``'Ui g[YghUhhYhY'?ØW\Y"

("6iX[YhZfYibX]WXYCdh]cbYb

 $\begin{tabular}{ll} K Ybb `Xi ``Ui Z'XUg `6i X[Yh `UW hYb `a i gghž'[]Vh `Yg `]b `@bYVi f[``Ui WXY]bY `FY]\Y `j cb `dfY]g[Øbgh][Yb `, VYfbUW hi b[ga O`[`]WX_Y]hYb" \\ \end{tabular}$

- < c ghY`'@ØbYVi f['''9]b'a cXYfbYg'< cghY`ž'XUg'gck c\`
 GWX`UZgÀ`Y'U`g'Ui WX'df]j UhY'N]a a Yf'UbV]YhYh"'DYfZY_h'ZØf
 ^ b[Y'FY]qYbXY°</pre>
- 7 Ua d]b[d`Uhn`@ØbYVi f[Yf`<Y]XY` : Øf`X]Y
 5 VY bhYi Yf`i gh][Yb`[]Vh'Yg`]b`XYf`BÀ\Y`Y]bYb
 7 Ua d]b[d`Uhnž']XYU``ZØf`Y]b`bUhi fbU\Yg`9f`YVb]g"

) " <]ghcf]gWXYI bhYf_ØbZhY a]h 7\Uf]ga U

K Yf`XUg`6YgcbXYfY`gi W\hž`k]fX`]b`@ØbYVi f[`ZØbX]["`NU\`fY]W\Y\]ghcf]gW\Y`I bhYf_ØbZhY`j Yf`Y]\Yb`XY]bYa `5i ZYbh\U`h`Y]bY Y]bn][Ufh][Y`BchY"

- < chY``ni f`Dcgh` '9]b`hfUX]h]cbgfY]WXYg`< chY``a]h'j]Y`
 <]ghcf]Y`i bX`Y]bYa 'WXUfa UbhYb`FYghUi fUbh"</pre>
- ? `cghYf'9VghcfZ' '9]bY'Y\Ya U`][Y'?`cghYfUb`U[Yž'X]Y \Yi hY'U`g'<chY`'[Ybi hnh'k]fX'i bX'Y]bY'gd]f]hi Y``Y 5ha cqd\ÀfY'V]YhYh"

lbhYf_ibZh	5fh	DfY]g_`UggY
<pre><chy`'5`hyg'?ui g<="" pre="" z\ui=""></chy`'5`hyg'?ui></pre>	< c hY`	· • •
Nia∵ fØbYb˙À[Yf	DYbg]cb	•
: Yf]Ybk c\bi b['Ua	: Yf]Ybk c\bi b[• •
K UggYfhi fa		
<pre><cghy``@øbyvif[< pre=""></cghy``@øbyvif[<></pre>	< c ghY`	•

* "'H]ddg'ZØf'X]Y'6i W\i b[

9[U`ž' \mathbb{Z} 0f'k Y`W\Y'I bhYf_i b \mathbb{Z} h'Xi 'X]W\'YbhgW\Y]XYghž'\]Yf'g]bXY]b][Y'H]ddgž'i a 'X]Y'VYghYb'5b[YVchY'ni ' \mathbb{Z}]bXYb.

- : fØ\nY]h]['Vi W\Yb' '6YgcbXYfg']b'XYf'< Ui dhgU]gcb'_Ubb Yg'gW\k]Yf]['gY]bž'Y]bY'I bhYf_i bZh'ni 'Z]bXYbž'k Ybb'Xi 'ni gdÀh'Vi W\gh"
- Cb`]bY'j Yf[`Y]WXYb' 'Bi hnY'JYf[`Y]WXgdcfhU`Yž'i a 'X]Y VYghYb'DfY]gY'ni 'Z]bXYb"
- 6Yk Yfhi b[Yb``YgYb` 'GWk Ui 'X]f`X]Y`6Yk Yfhi b[Yb`UbXYfYf FY]gYbXYf`Ubž'i a 'Y]bY`]bZcfa]YfhY`9bhgWkY]Xi b['ni hfYZZYb"

A]h'X]YgYb'H]ddg'V]gh'Xi 'VYghYbg'[YfØghYhži a 'X]Y'dYfZY_hY I bhYf_i bZh']b'@ØbYVi f['ni 'Z]bXYb"'8]Y'GhUXh'k UfhYh'XUfUi Zž'j cbX]f'YbhXYW h'ni 'k YfXYb'

6 Ygi W Yb G]Y ibg Ui Z Y]bY!fY]gY XY