

## BYi\_O``b'9bhXYW\_Yb.'?i`]bUf]\_ž'?ibgh ibX'BUW\h`YVYb']a'?]Yn

9bhXYW\_Yb'G]Y'BYi\_O``b.'\_i`]bUf]gWXY'; YbØggYž'\_fYUh]jY ?i`hi fž'[fØbY'FØW\_ni [gcfhY'i bX'Y]b'di`g]YfYbXYg BUWXh`YVYb''Y]b'6Yn]f\_'jc``Yf'J]Y`ZU`h°



K ]``\_ca a Yb`]b`BYi \_O``bžY]bYa `XYf`gdUbbYbXghYb`i bX

j ]Y`ZÀ`h][ ghYb`6Yn]f\_Y`6Yf`]bg°`< ]Yf`hfYZZYb`?i`hi fž'; YgW\]W\hY`i bX

a cXYfbY`@YVYbgUfh`Ui ZY]bUbXYf`i bX`\_fY]YfYb`Y]b`Y]bn][ Ufh][ Yg

:`U]f"`J cb`\]ddYb`7UZÅg`i bX``YV\UZhYb`A Àf\_hYb`V]g`\]b`ni

W\Ufa UbhYb`DUf\_g`i bX`Ui ZfY[ YbXYb`J YfUbghU`hi b[ Yb` `BYi \_O``b
\Uh`ZØf`^YXYb`Yhk Ugʻni `V]YhYb"`-b`XYb`Zc`[ YbXYb`5VgW\b]hhYb

bY\a Yb`k ]f`X]W\a ]h`Ui Z'Y]bY`9bhXYW\_i b[ gfY]gY`Xi fW\X]YgYb

ZUWYhhYbfY]W\Yb`GhUXhHY]`žXYf`b]W\h`bi f`X]Y`9]bk c\bYf.]bbYbž

gcbXYfb`Ui W\`]a a Yf`a Y\f`6Ygi W\Yf.]bbYb`VY[ Y]ghYfh"`@Ugg`X]W\
]bgd]f]YfYb`i bX`YbhXYW\_Y`X]Y`\_i`]bUf]gW\Yb`<][ \`][ \hgž`X]Y
\_fYUh]j Yb`?i bghgnYbY`i bX`XUgʻdi `g]YfYbXY`BUW\h`YVYbž`k À\fYbX
Xi `X]Y`j YfghYW\_hYb`C UgYb`XYf`Fi \Y`Yf\_i bXYgh"`GW\bUdd`X]f

XY]bY`VYghYb`GW\i\Yi bX`a UW\XX]W\`VYfY]hž`BYi \_O``b`]b`U```gY]bYf

### 9bhXYW\_Y'X]Y'J]Y`ZU`h'j cb'BYi \_Ò``b

BYi\_O``b']gh'Y]b'6Yn]f\_']b'6Yf`]bž'XYf'ZØf'gY]bY'Vi bhY'A]gW\ib[Ui g'?i `hi fYbž'A YbgW\Yb'i bX'C fhYb'ghY\h"'<]Yf'hf]ZZh'HfUX]h]cb'Ui Z AcXYfbYž'i bX'X]Y'GhfU» Yb'g]bX'Y]b'GW\aY`nh]Y[Y`'Ui g j YfgW\]YXYbYb'@YVYbggh]`Yb'i bX'=XYYb"'CV'Xi 'bi b'Ui Z'XYf'Gi W\YbUW\`\]ghcf]gW\Yb'6Ui kYf\_Ybž'\]ddYb'7UZ\Ag'cXYf ai`h]\_i `hi fY``Yb'FYghUi fUbhg'V]ghž'BYi\_O``b'\Uh'ZØf'YXYb'Yhk Ug ni 'V]YhYb"

9]b a U`Yf]gWXYf'Cfhž'XYb a Ub'b]WXhij YfdUggYb gc``hYž']gh'X]Y F]I XcfZYf'GhfU» Y"8]YgY'GhfU» Y']gh'XUg'< Yfn'j cb'BYi \_O``b'i bXV]YhYh'Y]bY'J]Y`nU\`'j cb'; YgWXÀZhYb'i bX'FYghUi fUbhgž'X]Y'X]Y \_i `hi fY``Y'J]Y`ZU`h'XYg'6Yn]f\_g'k]XYfgd]Y[Y`b"8]Y'5fWX]hY\_hi f']gh ZUgn]b]YfYbX.'\]Yf'ghY\Yb'gck c\``U`ha cX]gWXY': UWXk Yf\_\Ài gYf U`g'Ui WX'a cXYfbY'BYi VUi hYb"'A Ub'\Uh'XUg'; YZØ\`ž'XUgg'YXY 9W\_Y'Y]bY'bYi Y'; YgWX]WXhY'ni 'YfnÀ\`Yb'\Uh'

9]b'k Y]hYfYg'<][\`][\h']gh'XYf'6cf]g!@]YVYfa Ubb!D`Uhnž'Y]b
\_`Y]bYfž'UVYf'ZY]bYf'D`Uhnž'XYf'cZh'U`g'HfYZZdi b\_h'ZØf'X]Y'5bk c\bYf
X]Ybh"'<]Yf'Z]bXYh'a Ub'cZh'?Øbgh`Yfž'X]Y']\fY'K Yf\_Y'Ui gghY``Ybž
i bX'GhfYYh'A i g]W]Ubgž'X]Y'X]Y'5ha cgd\ÀfY'a ]h'@]j Y!A i g]\_
VYfY]WXYfb"'9g']gh'Ui WX'Y]b'hc``Yf'Cfhž'i a 'Y]bZUWX'ni 'j Yfk Y]`Ybž
Y]bYb'?UZZYY'ni '[Yb]Y»Yb'i bX'XUg'Vi bhY'HfY]VYb'i a 'g]WX'\Yfi a
ni 'VYcVUWXhYb"

8]Y'\_i`hi fY``Y'J]Y`ZU`h'YfghfYW\_h'g]W\'Ui W\'Ui Z'X]Y'; Ughfcbca ]Y" BYi\_O``b']gh'VY\_Ubbh'ZØf'gY]bY'nU\`fY]W\Yb']bhYfbUh]cbU`Y FYghUi fUbhg" < ]Yf'\_Ubbgh'Xi ; Yf]WXhY'Ui g'XYf'[ UbnYb'K Y`h dfcV]YfYb" J cb'XYf'hØf\_]gWXYb'? ØWXY'V]g'\]b'ni 'j ]YhbUa Yg]gWXYb GdYn]U`]hÀhYb' 'Yg'[ ]Vh'\_Ui a 'Yhk Ugž'XUg'a Ub'\]Yf'b]WXh'Z]bXYb \_Ubb"'6Y`]YVhY'FYghUi fUbhg'k ]Y' < Ug]f'cXYf'@]hh`Y'=hU`m'n]Y\Ybb]WXh'bi f'9]b\Y]a ]gWXY'Ubž'gcbXYfb'Ui WX'Hci f]ghYbž'X]Y'X]Y \_i`]bUf]gWXYb'? Ògh`]WX\_Y]hYb'XYf'K Y`h'YbhXYW\_Yb'k c``Yb"

9]b V]ggWXYb k Y]hYf UVgY]hg XYf GhfU» Yž ]b XYb k Yb][ Yf ZfYei Ybh]YfhYb; UggYbž Z]b XYh a Ub j YfghY W\_hY 7 UZÅg i b X 6 Ufgž X]Y Y]bY Ybhgd UbbhY 5 ha cgd\ÀfY V]YhYb "C Zh g]b X g]Y ``]YVYj c `` Y]b[ Yf]WX hYh i b X V]YhYb Y]b [ Ya Øh`]WX Yg D`Àhn WX Yb ž i a `XYb `HU[ Ui g\_`]b[ Yb `ni ``UggYb "`6 Ygcb XYfg VY[ Y\fh g]b X `X]Y `? UZZYYA Ubi ZU\_hi fYbž X]Y gY`Vgh [ YfÒghYhY '? UZZYYVc\bYb UbV]YhYb" <]Yf \_Ubb a Ub c Zh Ui WX `Ub `GWX bi ddYf\_i fgYb c XYf? UZZYYhUgh]b[ g hY]`bY\a Yb"

8]Y'J]Y`ZU`h'j cb'BYi \_O``b'nY][h'g]W\'b]W\h'bi f']b'XYf'BUhi f'XYf A YbgW\Ybž'gcbXYfb'Ui W\']b'XYb'\_fYUh]j Yb'Dfc'Y\_hYbž'X]Y'\]Yf YbhghY\Yb"J]Y`Y'? Øbgh`Yf'i bX'? fYUh]j Y'\UVYb']b'XYb'`YhnhYb  $\pm$ J\fYb']\fYb'K Y['bUW\'BYi \_O``b'[YZ\ bXYb'i bX'Vf]b[Yb'Zf]gW\Y  $\pm$ YYb']b'XYb'6Yn]f\_"'8]Y'7]bYa Ug'i bX'5hY`]Yfg'g]bX'cZh GW\Ui d`ÀhnY'ZØf'\_i `hi fY``Y'9j Ybhg'i bX'5i gghY``i b[Ybž'X]Y'XUg \_fYUh]j Y'DchYbn]U``XYg'6Yn]f\_g'k]XYfgd]Y[Y`b"

 $< ]Yf'g]bX'Y]b][ Y'XYf'VY`]YVhYb'\_i `hi fY``Yb'JYfUbghU`hi b[ Ybž'X]YfY[ Y`a À»][ ']b'BYi _<math>\dot{O}$ ``b'ghUhhZ]bXYb.

JYfUbghU`hi b[	8 Uhi a	Cfh
BYi_Ò``b'5fhg	; b]	JYfgWX]YXYbY
: Ygh]j U`		@cWUh]cbg
BYi_Ò``bYf'CdYf	; Ubn'À\f][	BYi_Ò``bYf'CdYf
GhfYYh: ccX:A Uf_Yh	GUa ghU[g	HYa dY`\cZYf': Y`X

9]b 'GdUn]Yf[ Ub[ 'Xi fW 'B Yi \_O``b']gh'k ]Y 'Y]bY 'F Y]gY 'Xi fW j YfgW ]Y XY bY '?i `hi fY b'i bX 'HfUX]h]c bY b" '8 Yf' 7 \ Ufa Y 'XY g' 6 Yn]f\_g `]Y[ h']b 'gY]bYf'I bVYfYW YbVUf\_Y]h'i bX 'XYf': À\][ \_Y]hž'U`hYg'i bX bYi Yg'@YVYb'\Ufa cb]gW 'ni 'j YfY]bYb"'9[ U``cV'Xi 'X]W 'ZØf'?i bghž 5 fW ]hY\_hi fž'9ggYb'cXYf'Y]bZUW 'XUg'Vi bhY'HfY]VYb'i bX'X]Y'bYi Yb

### $?i )bUf]gWXY < ][ \ \ ][ \ \ hg ZØf : Y]bgWXa YW_Yf$

BYi\_O``bžY]b'6Yn]f\_žXYf'ZØf'gY]bY'\_i `hi fY``Y'J]Y`ZU`h'VY\_Ubbh']ghž V]YhYh'Ui W\ Y]bY'VYY]bXfi W\_YbXY'\_i `]bUf]gW\Y'GnYbYž'X]Y
: Y]bgW\a YW\_Yf'Ui g'XYf'[ UbnYb'GhUXh'Ubn]Y\h''<]Yf'\_Ubb'a Ub
? Ogh`]W\\_Y]hYb'Ui g'XYf'[ UbnYb'K Y`h'YbhXYW\_Ybž'X]Y'gck c\`
hfUX]h]cbY``Y'U`g'Ui W\ a cXYfbY'9]bZØggY'k ]XYfgd]Y[ Y`b'''Jcb
\_`Y]bYbž'[ Ya Øh`]W\Yb'7UZ\Ag'V]g'\]b'ni 'hfYbX][ Yb'FYghUi fUbhg']gh
ZØf'YXYb'; Ui a Yb'Yhk Ug'XUVY]"

 $6 YgcbXYfg'VYa Yf_Ybgk Yfh']gh'X]Y'J]Y`ZU`h'XYf']bhYfbUh]cbU`Yb? \emptyset W Y \check{z}'X]Y']b'BYi _\D``b'j YfhfYhYb']gh'''9]b][ Y'XYf'VY`]YVhYghYb _i`]bUf]gW Yb'<][ \`][ \hg'i a ZUggYb.$ 

- HØf\_]gWX Y 'F YghUi fUb hg. '8 Ug'; YV]Yh'\Uh'Y]bY'[fc»YhØf\_]gWXY'; Ya Y]bgWX UZhž'k Ug'g]WX']b'XYf'5bnU\`'i bX Ei U`]hÀh'XYf'Xcfh][Yb'F YghUi fUb hg'k]XYfgd]Y[Y`h"6Ygi WXYb'G]Y'XUg'? YVUd' < Ui g'ZØf'Y]bYb'XYf'VYghYb 8 ÒbYf']b'XYf'GhUXh"</li>
- J]YhbUa Yg]gWXY?ØWXY.'8]Y' D\c !@]YV\UVYf'\_ca a Yb
  ]b'XYb'; Ybi gg'j cb'Yl ei ]g]hYb'6fØ\Yb'i bX'Zf]gWXYb
  Ni hUhYb"'@c\_U`Y': Uj cf]hYb'k ]Y'D\c'J]Yh'g]bX'Y]b'Ai gg"
- =hU`]Yb]gWXY'HfUhhcf]Yb.; Yb]Y»Yb'G]Y'Ui h\Ybh]gWXY
   D]nnU'i bX'DUghU']b'Y]bYa 'XYf'WXUfa UbhYb'HfUhhcf]Ybž'X]Y
   ]b'XYb'GY]hYbghfU»Yb'j YfghYW\_h'g]bXž'VY]gd]Y`gk Y]gY']a'
   D]nnU'A]b]"

9]b 'VYgcbXYfYg'5b`Y[Yf'g]bX'X]Y'GhfYYh': ccX'A Àf\_hYž'X]Y'XUg \_i`]bUf]gW\Y'9f`YVb]g']b'BYi\_O``b'ni a '@YVYb'Yfk YW\_Yb''<]Yf'g]bX Y]b][Y'<][\`][\hgž'X]Y'a Ub'b]W\h'j YfdUggYb'gc``hY. A Uf hb Ua Y

		· ·
BYi_Ò``bYf'GhfYYh	GUa ghU[ž'%&!%, 'l\f	⇒hYfbUh]cbU`Y
: ccX <sup>-</sup> A Uf_Yh		; Yf]W\hY'jcb'`c_U`Yb
		:ccX!GhÀbXYb
A Uf_h\U``Y'BYi b	8cbbYfghU[ 'V]g	?i`]bUf]gW\Y'9jYbhg
	GUa ghU[ž'%&!&\$'l\f	i bX¹h\Ya Uh]gW\Y
		AÀf_hY
: ccX Hfi W_: Ygh]j U`	K]bhYfacbUhYž	J YfgW\]YXYbY`: ccX
	%%!%- 'l \f	Hfi W_gʻa ]h'_fYUh]j Yb
		A YbØg

 $BYi\_O``b']gh'Ui W 'ZØf'gY]bY'7UZÅg'i bX'6ÀW_YfY]Yb'VY_Ubbhž'X]Y$  a Y f'U`g'bi f'?UZZYY'i bX'?i W Yb'V]YhYb''' < ]Yf'g]bX'Y]b][Yž'X]Y'ZØf] Y f'Y]bn][Ufh][Yb'5b[YVchY'[Y`cVh'k YfXYb.

- 7 UZÅ '? fUbn`Yf. '9]b'VY`]YVhYf'Gdch'ZØf': fØ\ghØW\_'a ]h
   Y]bYf'i a ZUb[fY]WXYb'5i gk U\`'Ub'6fÒhWXYbž'7fc]ggUbhg
   i bX'Zf]gWXYb'GÀZhYb"
- ? UZZYY\_ca a i bY. '=XYU`'ZØf'? UZZYY`]YV\UVYfž'X]Y']\fYb ? UZZYY']a '< UbXZ]`hYf'Ui Z[ YVfØ\h'[ Yb]Y»Yb'a ÒW\hYb"
- 6ÀW\_YfY]'GhYbnY`.'6YfØ\a h'ZØf']\fY'Zf]gW\'[YVUW\_YbYb 6fYnY`b'i bX'XUg'hfUX]h]cbY``Y'6fch"

B]Wkh'bi f'X]Y'GdY]gYbž'gcbXYfb'Ui Wk'X]Y'; YhfÀb\_YgnYbY']b
BYi\_O``b']gh'VYa Yf\_Ybgk Yfh''8Ug'FYdYfhc]fY'fY]Wkh'j cb
[Ya Øh`]WkYb'K Y]bVUfg'V]g'\]b'ni '`YV\UZhYb'7cW\_hU]`!@cWUh]cbg''
6Ygi WkYb'G]Y.

- K Y]bVUf'; fUdY. 'DYfZY\_h'ZØf'Y]bY'YbhgdUbbhY'K Y]bdfcVY
   a ]h'Y]bYf'5i gk U\`'Ub'fY[ ]cbU`Yb'i bX']bhYfbUh]cbU`Yb
   K Y]bYb"
- $7cW_hU]`` Uig. < ]Yf'Z]bXYb'G]Y'_fYUh]jY'7cW_hU]`gž'X]Y'jcbhU`Ybh]YfhYb'6Uf_YYdYfb'niVYfY]hYh'kYfXYb"$
- 7fUZh'6YYf'; U`cfY.'9]bY'FY]\Y'j cb'A ]\_fcVfUi YfY]Yb
   V]YhYh'Y]bY'J ]Y`nU\`'j cb'\UbXk Yf\_`]WX'[ YVfUi hYb'6]YfYbž
   X]Y': Y]bgWXa YW\_Yf'Ub`cW\_Yb"

8]Y'GU]gcbU`Y'?ØW\Y']gh'Y]b'k Y]hYfYg'<][\`][\hz'XUg'j]Y`Y'@c\_U`Y]b'BYi\_O``b'Ui gnY]W\bYb"'8]Y'JYfk YbXi b['j cb'Zf]gW\Ybz'gU]gcbU`Yb'Ni hUhYb'gcf[h'b]W\h'bi f'ZØf'I a k Y`hVYk i gghgY]bz'gcbXYfb'Ui W\'ZØf'; YgW\a UW\_i bX'Ei U`]hÀh"'FYghUi fUbhg'k]Y'XUg'GU]gcb'gYhnYb'Ui Z``c\_U`Y'DfcXi\_hY'i bX'V]YhYb'Y]b'k YW\gY`bXYgAYbØz'XUg'X]Y'5fca Yb'XYf'YkY]`][Yb'\J\\fYgnY]h'k]XYfgd]Y[Y'h"

 $8 ]Y'_i `]bUf]gWXY'9bhXYW_i b[ghcif'XifWX'BYi_O``b'jYfgdf]WXhbif'_jbYfgdf]WXhbif'_jbYfgdf]WXhbif'_jbYfgdf]WXY'; Yf]WXhYž'gcbXYfb'UiWX'Y]b'Y]bXfiW_gjc``Yg9fYVb]g'XYf'ai`hj_i `hifY``Yb'; YaY]bgWXUZh'XYg'6Yn]f_g''BihnYbG]Y'X]Y'; Y`Y[Yb\Y]hž'a]h'XYb'6Yg]hnYfb'ibX'? OWXYb'ni 'gdfYWXYbžX]Y'cZh'VYfY]hk]``][']\fY'; YgWX]WXhYb'ibX'HfUX]h]cbYb'hY]`Yb''8]YgY\DhYfU_h]cbYb'jYfY]\Yb''YXYa'6YgiWX'Y]bY'dYfgOb`]WXY'BchY'ibX'gcf[Yb'XUZØfž'XUgg'aUb'b]WXh'bifX]Y'GdY]gYbž'gcbXYfb'UiWX'X]Y<]bhYf[fØbXY'XYf'?@WXYb'_YbbYb`Yfbh'$ 

### ?ibghibX`?i`hif`]a < YfnYb`XYg`6Yn]f\_g

 $BYi\_\grave{O}``b']gh'b]W\&h'bif'Y]b'GW\&aY`nh]Y[Y``XYf'?i``hifYbž'gcbXYfbUiW\&'Y]b'`YVYbX][Yf'?bchYbdib\_h'ZØf'?ibgh'ibX'?i``hif''<]Yfdi``g]Yfh'XUg'\_fYUh]jY'@YVYbž'ibX'X]Y'J]Y``ZU`h'XYf'_i``hifY``Yb5b[YVchY'gd]Y[Y`h'X]Y']bhYfbUh]cbU`]g]YfhY'=XYbh]h\(\Dangle h'XYg'GhUXhYY]``gk]XYf'''6YgiW&Yf'_\ObbYb'g]W&'UiZ'Y]bY'9f_ibXib[ghcif'VY[YVYb\(\ZYY)bY')ghcf]gW&Y'Gh\(\Dangle h'Yb'V)g'\)bni']bbcjUh]jYb'DYfZcfaUbW!?ibghjYfUbghU`hib[Yb'fY]W&h''$ 

9]b'<chgdch'ZØf'nY]h[YbÒgg]gW\Y'?ibgh']gh'X]Y'; U`Yf]Y']a
? ÒfbYfdUf\_"'8]YgYf'kibXYfgW\ObY'DUf\_'VY\YfVYf[h'b]W\h'bif
Y]bYb']Xm``]gW\Yb'; UfhYbž'gcbXYfb'UiW\'Y]bY'; U`Yf]Yž'X]Y
fY[Y`aÀ»]['kYW\gY`bXY'5igghY``ib[Yb'jcb'`c\_U`Yb'ibX
]bhYfbUh]cbU`Yb'?Øbgh`Yfb'nY][h"'8]Y'\cW\\_UfÀh][Yb
J YfUbghU`hib[Yb'V]YhYb'cZh'Y]bY'D`UhhZcfa'ZØf'BYkWcaYfž'X]Y']b
XYf'?ibghgnYbY':i»'ZUggYb'kc``Yb"

9]b'k Y]hYfYg'VYa Yf\_Ybgk YfhYg'?i `hi fnYbhfi a ']gh'XUg'8]ghf]Wh 6Yf`]b"'<]Yf'Z]bXYb'fY[Y`a À»]['5i gghY``i b[Yb'i bX'K cf\_g\cdg ghUhhž'X]Y'g]W\ 'a ]h'H\Ya Yb'XYf'nY]h[YbÒgg]gW\Yb'?i bgh'i bX ?i `hi f'VYZUggYb"'8]Y'A ]gW\i b['Ui g'\_fYUh]j Yb'J YfUbghU`hi b[Yb i bX'Y]bYa 'ghYhg'k YW\gY`bXYb'Dfc[fUa a 'a UW\h'8]ghf]Wh'ni Y]bYa 'A i gg'ZØf'?i bgh']YV\UVYf"

: Øf'H\YUhYf!'i bX'DYfZcfa UbWY!: Ubg'[]Vh'Yg'XUg'65H!

Ghi X]ch\YUhYf''8]YgYg'\_`Y]bYž'UVYf'ZY]bY'H\YUhYf']gh'VY\_Ubbh'ZØf
gY]bY'gdUbbYbXYb' ⇒gnYb]Yfi b[Yb'i bX'5i ZZØ\fi b[Yb"'9g'V]YhYh
Y]bY'D`UhhZcfa 'ZØf'Yl dYf]a YbhY``Yg'H\YUhYf'i bX'n]Y\h'XUa ]h'Y]b
Di V`]\_i a 'Ubž'XUg'bUW\'bYi Yb'\_i `hi fY``Yb'5i gXfi W\_gZcfa Yb
gi W\h''8]Y']bh]a Y'5ha cgd\ÀfY'i bX'XUg'UVk YW\g`i b[gfY]W\Y
Dfc[fUa a 'gcf[Yb'ZØf'Y]b'Y]bn][Ufh][Yg'9f`YVb]g"

?i bgh!'i bX'?i `hi fcfhY']b 6YgcbXYfY]hYb BYi \_O``b

?ÒfbYfdUf_	; U`Yf]Y`ibX`kibXYfgW\ÒbYf
	; UfhYb
8]ghf]Wh'6Yf`]b	K YVXgY`bXY`5i gghY``i b[Yb'i bX
	K cf_g\cdg
65H!Ghi X]ch\YUhYf	9ldYf]a YbhY``Yg'H\YUhYf']b
	]bh]a Yf'5ha cgd\ÀfY
5fh Gd UW g	J]Y`ZÀ`h][Y'?ibghUb[YVchY'ibX
	?i bghYj Ybhg

6YgcbXYfg'Yfk À\bYbgk Yfh']gh'Ui W\'X]Y'BYi \_Ò``bYf'CdYfž'X]YY]bY'VfY]hY'DU`YhhY'Ub'Aig]WU`!'i bX'CdYfbUi ZZØ\fi b[Yb'V]YhYh'

8]Y'CdYf']gh'VY\_Ubbh'ZØf']\fY']bbcj Uh]j Yb'DfcXi \_h]cbYb'i bX'n]Y\h Y]b'X]j YfgYg'Di V`]\_i a 'Ub"'A]h'Y]bYa 'Ui ZfY[YbXYb'Dfc[fUa a ž XUg'gck c\`'\_`Ugg]gWXY'U`g'Ui WX'nY]h[YbÒgg]gWXY'GhØW\_Y'i a ZUgghž V]YhYh'g]Y'Y]bY'\Yfj cffU[YbXY'; Y`Y[Yb\Y]hž'X]Y'`c\_U`Y ?i `hi fgnYbY'ni '[Yb]Y»Yb"

9]b k Y]hYfYg'<][\`][\hig]bX'X]Y'? i bgha Àf\_hYž'X]Y'fY[Y`a À»][']b B Yi \_Ô``b 'ghUhhZ]bXYb"'8]YgY'A Àf\_hY'Vf]b[Yb'?Øbgh`Yfž'8Yg][bYf i bX'`c\_U`Y'<UbXk Yf\_Yf'ni gUa a Ybž'i a ']\fY'K Yf\_Y'ni dfÀgYbh]YfYb'i bX'ni 'j Yf\_Ui ZYb"'<]Yf'\_ÔbbYb'6Ygi W\Yf Y]bn][Ufh][Y'?i bghk Yf\_Y'Yfk YfVYb'i bX'[`Y]W\nY]h]['a ]h'XYb?Øbgh`Yfb']bg'; YgdfÀW\'\_ca a Ybž'k Ug'Y]bY'dYfgÔb`]W\Y J YfV]bXi b['ni f'\_fYUh]j Yb'; Ya Y]bgW\UZh'gW\UZh'"

8 Ugʻ6 U```\ Ui gʻB Ui bmbghf U» Yʻ]ghʻY]bʻk Y]hYfYfʻC fhžʻUbʻXYaʻ?i bgh i bXʻ?i `hi fʻ`YVYbX][ 'k YfXYb"'<]Yfʻk ]fXʻH\YUhYfʻi bXʻDYfZcfa UbWW ]bʻa Y\fYfYbʻGdfUW\YbʻUb[ YVchYbžʻk UgʻX]YʻJ ]Y`ZU`hʻXYfʻ6Yk c\bYf BYi \_O``bgʻk ]XYfgd]Y[ Y`h"'8 Ugʻ6U``\Ui gʻ]ghʻY]bʻF Ui aʻZØf [ YgY``gW\UZh`]W\Y`8 ]g\_i gg]cbYbʻi bXʻ\_i `hi fY``Yʻ9I dYf]a YbhYʻi bX\Uhʻg]W\`U`gʻY]bYʻVYXYi hYbXYʻGh]a a Yʻ]bʻXYfʻ6Yf`]bYf?i `hi f`UbXgW\UZh`YhUV`]Yfh"

'8 UfØVYf'\]bUi g'hfU[Yb'nU\`fY]W\Y': Ygh]j U`g'i bX'9j Ybhg']a '@Ui ZY
XYg'\\fYg'ni f'\_i `hi fY``Yb'J]hU`]h\h'BYi \_\O``bg'VY]"'CV'XUg'
BYi \_\O``bYf'?i `hi fgca a Yfz'XUg'F]I XcfZYf
K Y]\bUW\hga Uf\_h'cXYf'nU\`fY]W\Y'?i bghUi gghY``i b[Yb' 'X]Y
J YfUbghU'hi b[Yb'g]bX'gc'j ]Y`Z\h'h]['k]Y'X]Y'A YbgW\Ybz'X]Y'\]Yf
`YVYb"'\XXYg'9j Ybh'V]YhYh'Y]bY'; Y`Y[Yb\Y]hz'X]Y'@c\_U`]h\h'i bX']\fY
ZUWYhhYbfY]W\Y'?i `hi f'a ]hni Yf`YVYb"

±g[YgUa h']gh'?i bgh'i bX'?i `hi f']b'BYi \_O``b'Y]b'Ui ZfY[YbXYf'A]lUi g'HfUX]h]cb'i bX'±bcj Uh]cb"'CV'Xi fWX'XUg'9bhXYW\_Yb'j cbGhfYYh'5fhž'XYb'6Ygi WX'j cb'; U'Yf]Yb'cXYf'XUg'9]bhUi WXYb']b'X]Y`YVYbX][Y'H\YUhYfgnYbY' '6Ygi WXYf'ghY\Yb'j cf'Y]bYf'gWX]YfYbX`cgYb'5i gk U\``Ub'A O[`]WX\_Y]hYbž'X]Y'\_fYUh]j Y'GYY`Y'X]YgYgY]bn][Ufh][Yb'6Yn]f\_q'ni 'Yf`YVYb"

; fØbcUgYbibXDUf\_gZØf9bhgdUbbib[

 $BYi\_\grave{O}``b\check{z}`cZh`U`g`XUg`\_fYUh]jY`<Yfn`6Yf`]bg`VYnY]W\&bYh\check{z}`V]YhYhb]W\&h'bif'\_Øbgh`Yf]gW&Y`J]Y`ZU`h'ibX`_i`]bUf]gW&Y';YbØggYžgcbXYfb`UiW&`Y]bY':Ø``Y`Ub';fØbcUgYbž`X]Y`XUni`Y]b`UXYbž`XYaifVUbYb`HfiVY``ZØf`Y]bY`&Y]`Y`ni`YbhZ`]Y\Yb"`8]YgY`DUf_g`ibX; \AfhYb'g]bX'b]W&h'bif`FØW_ni[gcfhYžgcbXYfb`UiW&`CfhY`XYf6Y[Y[bib[ibX`9bhgdUbbib[ZØf`5bkc\bYf`ibX`6YgiW&Yf"$ 

9]b 'DUfUXYVY]gd]Y `'ZØf'Y]bY 'gc `W\Y'; fØbcUgY ']gh'XYf' HYa dY`\cZYf': Y`X"'9\Ya U`g'XYf'[fÒ» hY': `i [\UZYb'XYf'K Y`hž']gh X]YgYg']a a YbgY '5fYU`'\Yi hY'Y]b'VY`]YVhYf'Cfh'ZØf' $\approx$ [[Yfž FUXZU\fYf'i bX'D]W\_b]W\_Yf"'A]h'fi bX'' \$\$'<Y\_hUf': `ÀW\Y'V]YhYh'Yg i bYbX`]W\Y'A Ò[`]W\\_Y]hYb'ni f': fY]nY]h[YghU`hi b[.

- GdUn]YfYb[Y\YbiibX'FUXZU\fYb'Ui Z'k Y]h`Ài Z][Yb'K Y[Yb
- #b`]bYg\_UhYb'i bX'G\_UhYVcUfXYb
- D]W\_b]W\_g'Ui Z'XYf'K ]YgY
- 6U``gd]Y`Y'i bX'Gdcfhj YfUbghU`hi b[Yb

8 Yf'[fc» Yž'c ZZYbY'F Ui a 'Yfa Ò[`]W\h'Yg'YXYa ž'gY]bYb'Y][YbYb D`Uhn'ni 'Z]bXYbž'i bX'XUg'VYY]bXfi W\_YbXY'DUbcfUa U'XYf'GhUXh a UW\h'Yg'ni 'Y]bYa 'VYgcbXYfYb'9f`YVb]gž'\]Yf'ni 'gY]b"

9]b'k Y]hYfYf'VY`]YVhYf'Cfh']gh'XYf'<  $UgYb \setminus Y]XY'DUf_ž'VY_Ubbh'ZØfgY]bY'[fc>Y'; fØbZÀWXY'i bX'Y]b'Y\Ya U`][Yg'K]bXgd]Y`"8]Y j ]Y`ZÀ`h][Y': `cfU'i bX': Ui bU``ÀXh'ni 'YbhgdUbbhYb'GdUn]Yf[Àb[YbY]b'i bX'V]YhYh'nU\`fY]WXY'9W_Yb'ni a '9bhgdUbbYb.$ 

- 9]b  $5VYbhYi Yfgd]Y d`Uhn <math>Z\emptyset f?$ ]b XYf
- 9]b'\_`Y]bYf'Nccž'XYf'h]YZY'9]bV`]W\_Y']b'X]Y'H]Yfk Y`h
   Yfa Ò[`]W\h

 $B ] WX h'k Y] h'YbhZYfbh'VYZ] bXYh'g] WX 'XYf'Fi Xc`Z!K ]`XY!DUf_ž XYggYb'VYgcbXYfYf'7\Ufa Y'Xi fWX'X]Y'a U`Yf] gWXYb'HY] WXY'i bX XYb'U`hYb'6Ui a VYghUbX'YbhghY\h'''<]Yf'Z] bXYh'a Ub'Fi\Y'i bX 9bhgdUbbi b['UVgY] hg'XYg'\Y_h] gWXYb'GhUXh`YVYbg'''A ]h'gWXUhh] [YbD`ÀhnYb'i bX'Y] bYa 'Gd]Y`d`Uhn'] gh'XYf'DUf_'] XYU`'ZØf': Ua ]`]Yb.$ 

- GWX Ob 'Ub [ Y`Y [ hY 'K Y [ Yž'X]Y 'ni a 'GdUn]YfYb 'Y]b`UXYb
- 9]bY'\_`Y]bY'; fØbZÀW\Yž'X]Y'g]W\'dYfZY\_h'ZØf'Y]b GW\`ÀZW\Yb']a'; fUg'Y][bYh
- 9]b'VY`]YVhYf'Cfh'ZØf'Mc[U!'ibX':]hbYgg\_ifgY']a':fY]Yb

DUf_	6YgcbXYf\Y]hYb
HYa dY`\cZYf': Y`X	K Y]h`Ài Z][Y': `ÀWXYbž'Y\Ya U`g
	: `i [\UZYbž']XYU``ZØf'Gdcfh'i bX
	D]W_b]W_g
< UgYb\Y]XY	H]Yf[UfhYbž'CdYb!5]f!
	JYfUbghU`hi b[Ybž'Gd]Y`d`Uhn
Fi Xc`ZK]`XY!DUf_	HY]WXYž'gWXUhh][Y'D`ÀhnYž']XYU`
	ZØfFi\Y'ibX'9bhgdUbbib[

8 Yf? Øghf]b Yf 'GhfU' Y 'DUf\_']gh'YVYb ZU``g'Y]b'; Y\Y]a h]dd 'ZØf B Uhi f`]YV\UVYf"'8]YgYf'DUf\_']gh'j cb'Y]bYf'Y]bn][ Ufh][ Yb': `cfU [ YdfÀ[ hii bX'ØVYfnYi [ h'Xi fWX 'gY]bY'gWX`]WX hY'GWX Òb\Y]h"'8]Y GdUn]Yfk Y[ Y'ZØ\fYb'Xi fWX'Y]bY']Xm``]gWXY'@UbXgWXUZhž'i bX a Y\fYfY'K ]YgYb'V]YhYb'D`Uhn'ZØf'Y]b'fi \][ Yg'D]W\_b]W\_'cXYf Y]bZUWX'bi f'ni a '9bhgdUbbYb"'8Yf'DUf\_']gh'Y]b'\Yfj cffU[ YbXYf Cfhži a 'X]Y'GYY`Y'VUi a Y`b'ni '`UggYb'i bX'g]WX'a ]h'Y]bYa '[ i hYb 6i WX'ni fØW\_ni `Y\bYb"

: Øf'UVYbhYi Yf'i gh][ Y'6Ygi W\Yf'[ ]Vh'Yg'Ui » YfXYa 'XYb' 5bbYbghfU» Y'DUf\_ž'XYf'VYgcbXYfg'VY]' b[ Yb'@Yi hYb'VY`]YVh ]gh"'<]Yf'Z]bXYb'fY[ Y`a À» ][ 'J YfUbghU`hi b[ Yb'i bX'\_`Y]bY'?cbnYfhY ghUhhž'X]Y'X]Y'; Ya Y]bgW\UZh'ghÀf\_Yb'i bX'Y]bY'`YV\UZhY 5ha cgd\ÀfY'gW\UZZYb"'9g']gh'Y]b'Cfhž'Ub'XYa 'a Ub'UbXYfY A YbgW\Yb'hfYZZYb'i bX'bYi Y': fYi bXgW\UZhYb'gW\`]Y» Yb'\_Ubb"

5 V g W `] Y » Y b X `` À g g h 'g ] W `g U [ Y b ž 'X U g g 'B Y i \_ O`` b 'X i f W `g Y ] b Y n U \ `f Y ] W Y b `D U f \_g i b X '; f Ø b c U g Y b 'Y ] b 'j Y f g h Y W h Y g ' i k Y `` Z Ø f

9f\c`i b[ggi W\YbXY`]gh"CV`ZØf`Y]bYb`: Ua ]`]YbUi gZi [žY]b
fca Ubh]gW\Yg`D]W\_b]W\_cXYf`Y]bZUW\`bi f`ZØf`Y]bY`5i gnY]h`]a
; fØbYb` `X]Y`J]Y`ZU`h`Ub`5b[YVchYb``ÀXh`XUni `Y]bž`X]Y`BUhi f`]b
XYf`GhUXh`ni `[Yb]Y»Yb`i bX`9bYf[]Y`ni `hUb\_Yb"`JYf[YggYb`G]Y
b]W\hž`VY]a `bÀW\ghYb`6Ygi W\`]b`BYi \_O``b`Yhk Ug`NY]h`]b`X]YgYb
k i bXYfVUfYb`; fØbcUgYb`Y]bni d`UbYb`i bX`X]Y`Fi\Y`ni `[Yb]Y»Yb"

# G\cdd]b[ i bX A Àf\_hY ' '9]b 'DUfUX]Yg 'ZØf HfYbXgYhhYf

BYi\_O``b']gh'b]W\h'bi f'ZØf'gY]bY'\_i `hi fY``Y'J]Y`ZU`h'i bX
\_i`]bUf]gW\Yb'<O\Ydi b\_hY'VY\_Ubbhž'gcbXYfb'Ui W\'ZØf'Y]b
Ui ZfY[YbXYg'9]b\_Ui ZgYf`YVb]gž'XUg'YXYb'HfYbXgYhhYf'VY[Y]ghYfh''
8]Y'GhfU»Yb'i bX'J]YfhY``XYf'; Y[YbX'g]bX'[Ygd]W\_h'a]h'\_`Y]bYb
6ci h]ei Ybž'j]bhU[Y'G\cdg'i bX'K cW\Yba Àf\_hYbž'X]Y'XUg'<Yfn
YXYg'9]b\_Ui ZgZfYi bXYg'\O\Yf'gW\`U[Yb'`UggYb''

8]Y'K i hn\_mU``YY']gh'Y]b'dYfZY\_hYg'6Y]gd]Y``ZØf'X]Y'\_fYUh]j Y G\cdd]b[!GnYbY'BYi\_O``bg"'<]Yf'Z]bXYb'g]W\'nU\`fY]W\Y 8Yg][bYf`ÀXYb'i bX'?i bgh[U`Yf]Ybž'X]Y'\UbX[Ya UW\hY'DfcXi\_hYi bX'Y]bn][Ufh][Yg'8Yg][b'UbV]YhYb"'8]Y'?ca V]bUh]cb'Ui g'`c\_U`Ya <UbXk Yf\_'i bX']bbcj Uh]j Yb'=XYYb'n]Y\h'?Ài ZYf'Ubž'X]Y'Yhk Ug 6YgcbXYfYg'gi W\Yb"

9]b'k Y]hYfYf'<chgdch']gh'X]Y'K UgWX\Ui gghfU» Yžk c'g]WX
nU\`fY]WXY'gYWcbX!\UbX'@ÀXYb'i bX'J]bhU[Y'G\cdg
UbY]bUbXYffY]\Yb"'8]Y'J]Y`ZU`h'XYf'A cXY'V]YhYh'ZØf'YXYłb'Yhk Ug'
j cb'\_`Ugg]gWXYb'FYhfc!GhØW\_Yb'V]g'\]b'ni 'a cXYfbYb'GhfYYhk YUf!
8 Yg][ bg"'8]Y'[YgWX]W\_hY'?ca V]bUh]cb'j cb'5`h'i bX'BYi 'gWXUZZh
Y]bY'Ui ZfY[YbXY'5ha cgd\ÀfYž'X]Y'XUg'9]b\_Ui ZYb'\]Yf'ni 'Y]bYa
9f`YVb]g'a UWXh"

- 6Y]gd]Y`\UZhY'@ÀXYb']b'XYf'K UgW\\Ui gghfU»Y.
  - <c`na Uf\_h '?i bgh'i bX'<UbXk Yf\_'Ui g'XYf'FY[]cb</pre>
  - GWk YghYf\Yfn. 'GYWcbX! < UbX'A cXY']a 'FYhfc! @cc

BYi \_O``b`\Uh'Ui W\`Y]bY`J]Y`nU\``Ub`A Àf\_hYbž'X]Y`gck c\`
9]b\Y]a ]gW\Y`U`g`Ui W\`Hci f]ghYb`Ubn]Y\Yb"`8Yf`BYi \_O``bYf
K cW\Yba Uf\_h`Ui Z`XYa `A Um\UW\i ZYf`]gh`Y]b`A i gg"`<]Yf`Z]bXYb
G]Y`Zf]gW\Y`DfcXi \_hYž'6]c!@YVYbga ]hhY``i bX`Y]b`]bgd]f]YfYbXYg
5a V]YbhYž'XUgʻni a `:`Ub]YfYb`i bX`5i gdfcV]YfYb`Y]b`ÀXh"`8Ug
A Uf\_hhfY]VYb`]gh'j cb`Y]bYa `Vi bhYb`A ]l`Ui g`]bhYfbUh]cbU`Yf
; Ughfcbca ]Y`[ YdfÀ[ h``\]Yf`\_ObbYb`G]Y`b]W\h'bi f`Y]b\_Ui ZYbž
gcbXYfb`Ui W\`gW\`Ya a Yb°

#### K ]W\h][Y'8YhU]`g

L 7- F-	1 1   -   -   -   /   -	
$-$ n /C T $\alpha$	TINIC N V r	١.
<del>1</del> 0 <u>7</u> 0 1 a	Uh]cbYb	,

<sup>2</sup> ZZbi b[gnY]hYb	8]YbghU['i bX': fY]hU[ž
	%&.\$\$ %, .\$\$`I \f
GhUbXcfhY	A UmVUWNi ZYfžBYi _Ò``b
5b[YVch	: f]gWkYg°CVghž°; Ya ØgYž
	]bhYfbUh]cbU`Y`?ØWXYž
	?i bgh\UbXk Yf_

K Yf Yg 'VYj cfni [hž\_i bhYfVi bhi bX YbhgdUbbh Y]bni \_Ui ZYb ž gc ``hY XYb 'VY`]YVhYb 'GhfYYh: ccX 'A Uf\_h 'Ub 'XYb 'I ZYfdfca YbUXYb b]Wkh 'j YfdUggYb" '< ]Yf \_ca a Yb 'Ub 'XYb 'K cW YbYbXYb :: ccX! Hfi W\_g i bX '< AbX `Yf 'ni gUa a Yb ž i a 'X]Y 'VYghYb ']bhYfbUh]cbU `Yb ? Ògh`]Wk \_Y]hYb 'i bhYf 'ZfY]Ya '< ]a a Y ``Ubni V]YhYb" '8 ]Yg 'a UWkh XYb A Uf\_h 'ni 'Y]bYa 'A U[ bYhYb 'ZØf': Y]bgWk a YW\_Yf i bX 'HfYbXgYhhYf [ `Y]Wk Yfa U» Yb"

±0.6Yni [ 'Ui Z'bUW\\U`h][ Yb'i bX'Yh\]gW\Yb'?cbgi a 'V]YhYh
BYi \_Ô``b'nU\`fY]W\Y'Cdh]cbYb"'@ÀXYb'k ]Y'I bj YfdUW\_h'BYi \_Ô``b
\UVYb'XUg'?cbnYdh'XYg'd`Ugh]\_ZfY]Yb'9]b\_Ui ZYbg'Ui Z[ Y[ f]ZZYb'i bX
ghY``Yb'Y]bY'VfY]hY'DU`YhhY'Ub'i bj YfdUW\_hYb'@YVYbga ]hhY`b'i bX
DfcXi \_hYb'ni f'J YfZØ[i b["'<]Yf'\_ÒbbYb'G]Y'b]W\h'bi f
i a k Y`hVYk i ggh'g\cddYbž'gcbXYfb'Ui W\']b']bgd]f]YfYbXYf
5ha cgd\ÀfY'j Yfk Y]`Yb'i bX'bYi Y'K Y[ Y'XYg'9]b\_Ui ZYbg
YbhXYW Yb"

Y]bn][Ufh]['i bX'YfnÀ\`h'Y]bY'Y][YbY'; YgWX]WXhYž'k Ug'X]YgYb A Uf\_h'ni 'Y]bYa 'YWXhYb'; Y\Y]a h]dd'ZØf'; YgWXYb\_Ygi WXYbXY a UWXh"

- 6YgcbXYfY 9]b\_Ui Z`cWUh]cbg.
  - 5b'XYb'l ZYfb.'?fYUh]j Y'; YgWXYb\_]XYYb'j cb fY[]cbU'Yb'?Øbgh'Yfb
  - I bj YfdUW\_h'BYi \_O``b. 'BUW\\U`h][ Y'DfcXi \_hY'c\bY D`Ugh]\_
  - BYi\_O``bYf'?]Yna Àf\_hY.'Gh]a a i b[gj c``Y JcfZØ\fi b['`c\_U`Yf'HU`YbhY

₺ 'B Yi \_Ô``b ']gh'XUg'9]b\_Ui ZYb'[ `Y]WX nY]h][ 'Y]b '9f`YVb]g"'C V']b
Y]bYf'hfYbXm'6ci h]ei Yž'Ui Z'Y]bYa '`YV\UZhYb'A Uf\_h'cXYf']b
i b\_cbj Ybh]cbY``Yb'G\cdg' '\]Yf'Z]bXYh'YXYf'XUg'6YgcbXYfY'i bX
9]bn][ Ufh][ Y"'8]Y'\_fYUh]j Y'9bYf[ ]Y'XYg'6Yn]f\_g'gd]Y[ Y`h'g]WX']b
YXYf'9W\_Y'k]XYfž'k Ug'BYi \_Ô``b'ni 'Y]bYa 'k U\fYb'DUfUX]Yg'ZØf
HfYbXgYhhYf'i bX'9]b\_Ui ZgYbh\i g]UghYb'a UWXh"

## BUWX h`YVYb i b X '9j Ybhg' 'Gc 'di `g]YfYb X ']gh B Yi \_O``b

 $8 \ Yf'6 \ Yn]f_' \ Uh'Y]b \ Y'V \ Yf_Y b gk \ Yfh Y'5 b n U \ 'Ob' 7`i \ Vg \ Z'X]Y'U``Yg \ y's \ Y'Y_hfcb]g \ Yf'A i g]_'V]g' \ b'n i \ @j \ Y!8 \ y'' Ub V]Yh Yb''8 i f W X]Y \ A \ ]g \ b ['j cb']b h Yfb Uh]cb U`Yb'9]b Z \ @gg Yb' i b X'`c_U`Yb' H U`Yb h Yb Z]b X Yh' a Ub' \]Yf']a a Yf' k ]Y X Yf' b Y i Y Z'U i Zf Y [Yb X Y' C f h Y'' '6 Y`] Y V h Y 7`i Vg'g]b X.$ 

• 6Yf[\U]b'?Ubh]bY'''9]bY'\_`Y]bYfY'JYfg]cb'XYg VYfØ\a hYb'6Yf[\U]b"

- ? `i b\_Yf\_fUb]WX ` '9]b 'Y]bn][ Ufh][ Yf 'F cc Zhcd! 7 `i V 'a ]h 6 `]W\_ 'ØVYf '6Yf `]b "
- GC' \* ' '@Y[YbXÀfYf'7`i Vž'XYf'Y]bY'J]Y`nU\`'j cb A i g]\_gh]`Yb'i bX'9j Ybhg'V]YhYh"

9]bY'XYf'VYghYb'9][YbgW\UZhYb'XYg'BYi\_ $\dot{O}$ `bYf'BUW\h`YVYbg']gh X]Y'J]Y`ZU`h'XYf' $\dot{6}$ Ufg"'CV'Xi'UiZ'XYf'GiW\Y'bUW\'Y]bYf [Ya Øh`]W\Yb'?bY]dY'cXYf'Y]bYf'hfYbX][Yb'7cW\_hU]`VUf'V]ghž'\]Yf Z]bXYgh'Xi'U``Yg.

- $8 \text{ Ug'} < chY``6 \text{ Uf'} ``6YfØ\a h'ZØf'gY]bY'_fYUh]j Yb'7cW_hU]`g$  i bX'\]ddY'5ha cgd\ÀfY"
- ? Ua U`U` '9]bY'gh]`j c``Y'6Uf'a ]h'Y]bYf'i a ZUb[fY]WXYb 5i gk U\`'Ub'; ]b"
- GWX k UfnYg'7 UZÅ' '&(#+'[YÒZZbYhž']XYU``ZØf BUWX hgWX k Àfa Yf"

 $: \emptyset f `Y V X h Y `? i `hi f] b h Y f Y g g] Y f h Y `V ] Y h Y h `B Y i \_ O``b `Y ] b Y `J ] Y `n U ``j c b ` 9 j Y b h g `i b X `: Y g h] j U`g ž `X ] Y `X U g `[ U b n Y `> U \ f ` \ Ø V Y f `g h U h h \ Z] b X Y b .$ 

- BYi\_O``bYf'CdYf' '9]b']bbcj Uh]j Yg'H\YUhYfž'XUg fY[Y`a À»][ 'gdUbbYbXY'5i ZZØ\fi b[Yb'nY][h"
- CdYb'5]f'JYfUbghU`hi b[Yb' '=a 'Gca a Yf'Z]bXYb']a
   [YgUa hYb'6Yn]f\_'nU\`fY]WXY'CdYb!5]f!?cbnYfhY'i bX
   :]`a j cfZØ\fi b[Yb'ghUhh"
- 6Yf[a UbbghfU» YbZYgh' '9]b'VY`]YVhYg'GhfU» YbZYgh'a ]h Aig]\_ž'?ibgh'ibX'\_i`]bUf]gW\Yb'?Ògh`]W\\_Y]hYb"

K Ybb Xi 'Y]b : Ub 'j cb 'GhfYYh'5fh'V]ghž']gh'X]Y 'B UW h']b 'B Yi \_Ô``b XYf'dYfZY\_hY'NY]hdi b\_hž'i a 'X]Y 'VYY]bXfi W\_YbXYb 'A i fU`g'i bX 

♣bghU``Uh]cbYb 'ni 'Yf\_i bXYb"'6YgcbXYfg'X]Y'; Y[YbX'i a 'X]Y
K YgYfghfU» Y']gh'Y]b '< chgdch'ZØf'? Øbgh`Yf'i bX'V]YhYh'Y]b '\_fYUh]j Yg
5a V]YbhYž'XUg'g]WX'dYfZY\_h'ZØf'bÀWXh`]WXY'GdUn]Yf[Àb[Y'Y][bYh"

8]Y'DUfhm!?i`hif']b'BYi\_O``b']gh'b]W\h'bif'UiZ'7`iVg'ibX'6Ufg VYgW\fÀb\_h"'NU\`fY]W\Y'JYfUbghU`hib[Yb'Z]bXYb']b'U`hYfbUh]jYb @cWUh]cbg'ghUhhž'XUfibhYf'?Y``Yfž';UfU[Yb'ibX'gc[Uf'<]bhYf\OZY" 8]YgY'CfhY'g]bX'cZh'bif'XifW\'AibXdfcdU[UbXU'cXYf'gcn]U`Y BYhnk Yf\_Y'VY\_Ubbhž'k Ug'XYa 'BUW\h`YVYb'Y]bY'VYgcbXYfY GdUbbi b['j Yf`Y]\h"

I a `X]Y`VYghYb`9j Ybhg`]b`XYf`I a [YVi b[`b]W\h`ni `j YfdUggYbž`]gh Yg`fUhgUa ž`X]Y`gcn]U`Yb`A YX]Yb`ni `j YfZc`[Yb`cXYf`K YVgY]hYb`k]Y` bYi \_cY``b"XY`ni `VYgi W\Ybž`i a `Y]bYb`, VYfV`]W\_`ØVYf \_ca a YbXY`J YfUbghU`hi b[Yb`i bX`DUfhmg`ni `Yf\U`hYb"`CV`HYW\bcž <]d!<cd`cXYf`\d\X]Y!FcW\_ž`Yg`[]Vh`]a a Yf`Yhk Ug`BYi Yg`ni YbhXYW Yb"

HU[	JYfUbghU`hi b[	Cfh
: fY]hU[	@j Y 8 > GYh	?`i b_Yf_fUb]WX
GUa ghU[	CdYb'5]f'?]bc	K YgYfghfU»Y'((
GcbbhU[	IJnnʻIJa ʻGYgg]cb	GWA k UfnYgʻ7 UZÅ

8 Y hU]`c

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'Y]bY!fY]gY "XY