

## < ]fbghfÒa Y ]b : UfVYb. ?i bgh hf]ZZh K ]ggYbgW\UZh ]b 'XYf A Uf]Yb\_]fW\Y °</pre>

< Ubg 'Hf]b\_Ui g 'dfÀgYbh]Yfh'[ fUZ]gWXY' < ]fbghfca!
8 UfghY``i b[Yb']b'XYf'A Uf]Yb\_]fWXY'k À\fYbX'XYf'@Ub[Yb
B UWXh'XYf'?i `hi f'Ua '%("'\$\forall b]"</pre>



A Uf]Yb\_]fWX Yž? U]gYfg`Ui hYfbž'8 Yi hgWX `Ub X'!'5a '%( "'⇒ b] &\$&) 'dfÀgYbh]Yfh'XYf'A Uh\Ya Uh]\_Yf' < Ubg'Hf]b\_Ui g'gY]bY 

⊕ghU``Uh]cb'ni f'J ]gi U`]g]Yfi b['j cb' < ]fbghfÒa Yb']b'XYf

A Uf]Yb\_]fWXY'k À\fYbX'XYf'@Ub[Yb'BUWXh'XYf'?i `hi f"'8]YgY
Y]bn][ Ufh][ Y'J YfUbghU`hi b[ 'ghY\h'i bhYf'XYa 'A chhc' K ]ggYbgWXUZh
hf]ZZh'?i bgh'i bX'A i g]\_ 'i bX'gc```XUg'Ni gUa a Ybgd]Y``j cb
BYi fck ]ggYbgWXUZhž'Ÿgh\Yh]\_'i bX'A i g]\_ '\Yfj cf\YVYb"'Hf]b\_Ui gž
XYf'V]g'&\$%\* 'Ub'XYf'fYbca a ]YfhYb': fUi b\cZYf!⊕gh]hi h'ZØf
HYWXbc!'i bX'K ]fhgWXUZhga Uh\Ya Uh]\_'hÀh]['k Ufž'Vf]b[ h'a ]h'gY]bYf
5fVY]h'Zf]gWXYb'K ]bX']b'X]Y'JYfV]bXi b['nk ]gWXYb'X]YgYb
8 ]gn]d`]bYb"'

8]Y = bghU``Uh]cb bi hnh 9`Y\_hfcYbnYd\U`c[fUa a Y fP9; Łži a 'X]Y

<|fbU\_h]j |hÀhni 'a YggYb" < |YfVY]'k YfXYb'9`Y\_hfcXYb'Ua '?cdZ
Ub[YVfUWkhžX]Y'X]Y'YY\_hf]gWkYb'5\_h]j |hÀhYb'XYg'; Y\]fbg
Ui ZnY]WkbYb" 5b\UbX'X]YgYf'8 UhYb'\_ObbYb'b]Wkh'bi f
\_Øbgh'Yf]gWkY'8 UfghY``i b[Yb'[YgWkUZZYb'k YfXYbž'gcbXYfb'Ui Wkh]YZYfY'9]bV`]W\_Y']b'?fUb\_\Y]hgV]`XYf'k ]Y'DUf\_]bgcb'i bX'9d]'Ydg]Y
[YkcbbYb'k YfXYb"'Hf]b\_Ui g'\Uh'g]Wk'Ui Z'X]Y'9fZcfgWki b[
]bhYfU\_h]j Yf'[fUZ]gWkYf'JYfZU\fYb'ni f'5bU`mgY'X]YgYf'8 UhYb
gdYn]U`]g]Yfh"'5i Z'XUg'Dfc'Y\_h'j Yfk Y]gh'Ui Wk'X]Y'5bU`mgY'j cb
7cfbY`]i g'6cfW\_ž'XYf']b'gY]bYa'K Yf\_X]Y'; YgWk]WkhY'XYf
9fZcfgWki b['XYg'Y`Y\_hf]gWkYb'; Y\]fbg'VY`Yi WkhYhi bX'XYb'K Y[
j ca 'YfghYb'a YbgWk`]WkYb'99; 'j cb' < Ubg'6Yf[Yf']a '\\\Y\f'\&-\&-\V\]g
ni f'9hUV`]Yfi b['U`g'\_\_`]b]gWkY'8]U[ bcgYa Yh\cXY']b'XYf'A]hhY'XYg
&\$"'\\\Y\f\i bXYfhq'bUWknY]WkbYh''K U``qhY]b!JYf`U['"</pre>

## =bgd]fUh]cb Xi fWX ?]fWXYb[YgWX]WXhY

8 ]Y 'DfÀgY bhUh]cb']b'XYf'A Uf]Yb\_]fWXY'k i fXY'Xi fWX'Y]bY'ZfØ\YfY
YfZc`[ fY]WXY'5i gghY``i b[ ']b'XYf'GUb\_h!6`Ug]i g!? UdY``Y']b
A Ò`gWXVUWX']bgd]f]Yfh'''Hf]b\_Ui g'\_cbhU\_h]YfhY'DZUffYf'A Ufh]b'C`Zž
i a 'X]Y' \deltaghU``Uh]cb']b'XYf'A Uf]Yb\_]fWXY'ni 'fYU`]g]YfYb'''6Y]'XYf
J YfUbghU`hi b[ 'k YfXYb'X]Y'[ fUZ]gWXYb'8 UfghY``i b[ Yb'XYf
<]fbghfÒa Y'Ua '5VYbX'j cb'8Y\_UbUhg\_Ubhcf'H]a c'I \f][ 'Ui Z'nk Y]
Cf[ Y`b'a i g]\_U`]gWX'i bhYfa U`h''8]YgY'Gmbh\YgY'Ui g'j ]gi Y``Yf'i bX
U\_i gh]gWXYf'?i bgh'gc``'XYb'6Ygi WXYfb'Y]bY'bYi Ufh][ Y'9fZU\fi b[
V]YhYb'i bX'Yf'Ui Vh'Y]bYb'8]U`c[ 'ØVYf'X]Y'JYfV]bXi b[ Yb'nk ]gWXYb
<]fbghfÒa Yb'i bX'a i g]\_U`]gWXYa '5i gXfi W\_"

8 Ug '99; 'gY`Vgh']gh'Y]b 'ZUgn]b]YfYbXYg'K Yf\_nYi [ ž'XUg']b 'XYf
B Yi fck ]ggYbgW\UZh'Y]bY'k ]W\h][ Y'Fc``Y'gd]Y`h"8]Y
hYW\bc`c[]gW\Yb': cfhgW\f]hhY']b 'XYf'Y`Y\_hfcYbnYd\U`c[fUZ]gW\Yb
: cfgW\i b['\UVYb'Yg'Yfa O[`]W\hž'XUg'; Y\]fb']b 'gY]bYf'Y][YbYb
GdfUW\Y '`YgVUf'ni 'a UW\Yb"'8]Yg'ZØ\fh'ni 'bYi Yb': fU[Yb'ØVYf
XUg'J Yfgh\AbXb]g'j cb'; Y\]fb\Z b\_h]cbYb'i bX'XYfYb'8 UfghY``i b[']b
XYf'?i bgh"'8f"' < Ufhk ][' < UbgYf'Yf\_`\Afh\z'XUgg'XUg'K ]ggYb'ØVYf'XUg
; Y\]fb'ghUf\_'Xi fW\'X]Y'hYW\b]gW\Yb'A O[`]W\\_Y]hYb'[Ydf\A[h']gh"
8]YgYf'\]ghcf]gW\Y'?cbhYl h'k ]fX'YVYbZU``g']b'XYf'; YgW\]W\hY'XYf
< ]fbZcfgW\i b['YfOfhYfh\z'k ]Y'g]Y']a 'GdY\_hfi a 'Xc\_i a Ybh]Yfh']gh"

## 9]b 5VYbX j c Yf 8]g\_i gg]cb i bX =bgd]fUh]cb

a 'FU\a Yb'XYf'J YfUbghU`hi b['Z]bXYhii a '&%"' \$'I \f'Y]b

DcX]i a g[YgdfÀW\'a ]h'<Ubg'Hf]b\_Ui g'i bX'H]a c'I \f]['ghUhhž
a cXYf]Yfh'j cb'DZUffYf'A Ufh]b'C`Z"'8]YgY'8]g\_i gg]cbgfi bXY'n]Y`h

XUfUi Z'UVž'XUg'J YfghÀbXb]g'ZØf'X]Y'\_ca d`YI Yb'6Yn]Y\i b[Yb
nk]gW\Yb'XYb'<]fbghfÒa Yb'i bX'XYf'A i g]\_'ni 'j Yfh]YZYb"'9g'k]fX

YfÒfhYfhž'k]Y'\_Øbgh`Yf]gW\Y'i bX'k]ggYbgW\UZh`]W\Y'5bgÀhnY'ni f

♣bhYfdfYhUh]cb'XYf'<]fbU\_h]j ]hÀhYb'a ]hY]bUbXYf'j YfnU\bh'k YfXYb
\_ÒbbYb"

8]Y'@Ub[Y'BUW\h'XYf'?i`hif'jYfgdf]W\hžY]b'ZUgn]b]YfYbXYg 9f`YVb]g'ZØf'?ibgh!'ibX'K]ggYbgW\UZhg]bhYfYgg]YfhY'ni'kYfXYbž ibX'nY][hž'k]Y'j]Y`ZÀ`h]['X]Y'5bkYbXib[gVYfY]W\Y'jcb'K]ggYb ØVYf'XUg';Y\]fb'g]bX"

8 YhU]`g	
J c f ZU``	Gcbgh][ Yg
Cfh	AUf]Yb_]fWXYž'?U]gYfg`UihYfbž'8YihgWX`UbX
EiY``Yb	<ul><li>k k k "f\Y]bdZU`n"XY</li></ul>
	• k k k "k U``ghY]b!j Yf`U[ "XY
	• k k k "gdY_hfi a "XY

6 Y qi W Y b 'G | Y 'i b q 'U i Z 'b ! U [ "b Y h