

## BYi Yf'A UghYf']b'K ]fhgWX UZhgWX Ya ]Y'Ub XYf'I b]'FcghcW\_.'>Yhnh'Uba Y`XYb°

8]Y`I b]j Yfg]hÀh`FcghcW\_`ghUfhYh`ni a `K ]bhYfgYa YghYf &\$&) #&\$&\* `Y]bYb`bYi Yb`A UghYfghi X]Yb[ Ub[ `]b K ]fhgW\UZhgW\Ya ]Yž`XYf`]bhYfX]gn]d`]bÀfYg`K ]ggYb`ZÒfXYfh i bX`bUW\\U`h][ Y`9bhk ]W\_`i b[ `]b`XYb`: c\_i g`fØW\_h"



FcghcW\_ž'8Yi hgWX`UbX'!8Yf'bYi Y']bhYfX]gn]d`]bÀfY

A UghYfghi X]Yb[Ub['K]fhgWX UZhgWXYa]Y'XYf'I b]j Yfg]hÀh'FcghcW\_
ghUfhYh'ni a 'K]bhYfgYa YghYf'&\$&) #&\$&\*"'9]bgWXfY]Vi b[Yb'g]bX

UV'gcZcfh'a Ò[`]WX'i bX'f]WX hYb'g]WX'Ub'Ghi X]YfYbXYž'X]Y'Y]b

\_ca V]b]YfYbXYg'K]ggYb'Ui g'WXYa]gWXYb'i bX

VYhf]YVgk]fhgWX UZh`]WXYb'6YfY]WXYb'Yfk YfVYb'a ÒWX hYb"'8Yf

Ghi X]Yb[Ub['gYhnh'XUa]h'Y]bYb'\_`UfYb': c\_i g'Ui Z'U\_hi Y``Y'[`cVU`Y'
<YfUi gZcfXYfi b[Yb'k]Y'BUWX\U'h][\_Y]hž'?fY]g`Ui Zk]fhgWX UZhž
?`]a Uk UbXY`ž'I a k Y`hž'FYggci fWYbgWXcbi b['i bX

9bYf[]YYZZ]n]Ybn"'8]YgY'5i gf]WX hi b['fYZY\_h]Yfh'XYb'ghY][YbXYb
6YXUfZ'Ub': UWX\_fÀZhYbž'X]Y']b'XYf'@U[Y'g]bXž']bhYfX]gn]d`]bÀfY
@Ògi b[Yb'ni 'Ybhk]W\_Y`b"

8]Y B UWX ZfU[Y b UWX 5 Vgc j Y b h Y b 'X Y f 'K ] fhg WX U Zhg WX Y a ]Y ']gh i]b
8 Yi hg WX `Ub X '[fc » z c V k c \ `bi f 'k Y b][Y I b]j Y fg]h A h Y b 'X]Y g Y b
Ghi X]Y b [Ub [ 'Ub V]Y h Y b " 5 b 'X Y f I b]j Y fg]h A h F c g hc W\_ '\ Uh 'g] WX 'X]Y
5 b n U\ `X Y f G hi X]Y f Y b X Y b ']a '6 U WX Y `c fg hi X]Y b [Ub [
K ] fhg WX U Zhg WX Y a ]Y ']a 'J Y f `Ui Z Y] b Y g ' \*J \ f Y g ' Z Ug h j Y f X f Y ] Z U WX h z k Ug
X]Y '\ c \ Y 'B U WX Z f U [Y 'V Y g h A h][h" D f c Z Y g g c f 'D Y h Y f '@ U b [Y f z X Y f
g c k c \ `X Y b '6 U WX Y `c f! 'U `g 'Ui WX 'X Y b 'b Y i Y b 'A Ug h Y f g hi X]Y b [Ub [
\_c b n]d]Y f h `\ Uh z X f Ø W\_h 'g Y] b Y '< c Z Z b i b [ 'Ui Z Y ] b Y 'd c g]h]j Y
9 b h k ] W\_ `i b [ 'X Y g 'D f c [f Ua a g 'Ui g i b X 'V Y X U b \_h 'g] WX 'V Y] 'U ` `Y b
6 Y h Y]`][h Y b 'Z Ø f '] \ f Y 'I b h Y f g h Ø h ni b ["

## Ghi X]Ybghfi \_hi f'i bX'A cXi `Y

8 Yf'A UghYfghi X]Yb[Ub['K]fhgWXUZhgWXYa]Y']gh']b'XfY]'9VYbYb i bhYfhY]'hž'X]Y']b': cfa 'Y]bYf'DmfUa]XY'cf[Ub]g]Yfh'g]bX"'8]Y'6Ug]g VYghY\h'Ui g'6Ug]ga cXi 'Ybž'X]Y'Y]bY'gc']XY'; fi bX`U[Y']b 6Yhf]YVgk]fhgWXUZhg`Y\fY'cXYf'7\Ya]Y'V]YhYb"'8Uni 'nÀ\`Yb VY]gd]Y`gk Y]gY'&('@Y]ghi b[gdi b\_hY'f@DŁ']b'6Yhf]YVgk]fhgWXUZhii bX' \*'@D']b'j YfgWX]YXYbYb'WXYa]gWXYb'8]gn]d`]bYb"'Ghi X]YfYbXY\_ObbYb'ni gÀhn`]WX'K U\`dZ]WXha cXi `Y'k À\`Ybž'i a']\fY

8]Y'a ]hh'YfY'9VYbY'i a ZUggh'5i ZVUi a cXi `Yž'X]Y'dfU\_h]gW\Y'i bX ]bhYfX]gn]d`]bÀfY'?Ybbhb]ggY'j Yfa ]hhY`b"'9]b'7\Ya ]gW\Yg : cfgW\i b[ gdfU\_h]\_i a 'gck ]Y'Y]b'GYa ]bUfž'XUg'Ui Z VYhf]YVgk ]fhgW\UZh`]W\Y': fU[ YghY``i b[ Yb'Y]b[ Y\hž'g]bX'HY]`'X]YgYf 9VYbY"'6YgcbXYfg'\Yfj cfni \YVYb']gh'XUg']bhYfX]gn]d`]bÀfY 5i ZVUi a cXi `ž']b'XYa 'X]Y'5gdY\_hY' BUW\\U`h][ Yg'K ]fhgW\UZhYb']b XYf'7\Ya ]Y ']a 'A ]hhY`di b\_h'ghY\Yb"

## 5 VgWX`i ggUfVY]hYb`i bX`: cfgWXi b[

8]Y'Gd]hnY'XYf'DmfUa ]XY'V]`XYh'X]Y']bhYfX]gn]d`]bÀfY
5VgW\`i ggUfVY]hž'ZØf'X]Y'' \$'@D'j Yf[YVYb'k YfXYb"'<]YfVY]
YfUfVY]hYb'X]Y'Ghi X]YfYbXYb'Y]b'H\Ya U'Ui g'XYb'5fVY]hg[fi ddYb
XYf': U\_i `hÀh'ZØf'7\Ya ]Y'i bX'D\Ufa Un]Y'i bX'Ybhk ]W\_Y`b'XUni
Y]bY'k ]fhgW\UZhgk ]ggYbgW\UZh`]W\Y': fU[YghY``i b[']b
Ni gUa a YbUfVY]h'a ]h'Y]bYa '8cnYbhYb'ZØf

K ]fhgW\UZhgk ]ggYbgW\UZhYb"'8]YgY'Yb[Y'JYfnU\bib['nk ]gW\Yb7\Ya]Y'ibX'6Yhf]YVgk ]fhgW\UZh'k]fX'U`g'GW\`ØggY`'nif'@Ògib[\_cad`YlYf'DfcV`YaY']b'XYf'\DXighf]Y'Ub[YqY\Yb"

8]Y'I b]j Yfg]hÀh'F cghc W\_'di b\_hYh'ni XYa 'a ]h']\fYf'J]Y`nU\``Ub
5fVY]hg[fi ddYb'i bX'5b! \(\delta\)gh]hi hYbž'XUfi bhYf'bUa\UZhY
9]bf]W\(\hi\) b[Yb'k]Y'XUg'@Y]Vb]n' \(\delta\)gh]hi h'ZØf'? UhU`mgY'i bX'XUg
@Y]Vb]n' \(\delta\)gh]hi h'ZØf'C ghgYYZcfgW\(\hi\) b[\z'X]Y'X]Y
: cfgW\(\hi\) b[\g`\UbXgW\(\UZh\)VYfY]W\(\Yfb\)"A]h'XYa 'bYi Yb
A UghYfghi X]Yb[Ub['k]fX'b]W\(\hi\)bi f'Ui Z'XYb'6YXUfZ'Ub': UW\\_f\(\hat{Z}\)hYb
fYU[]Yfh\(\z'\)gcbXYfb'Ui W\(\x'\)X]Y']bhYfX]gn]d`]b\(\hat{Y}\)5i gf]W\(\hi\) b['XYf
I b]j Yfg]h\(\hat{Y}\)h'[Ygh\(\hat{Y}\)h'' 5Vgc\'j YbhYb'\_\(\Odd)bYb'\g]W\(\delta\)gca ]h'Ui Z
j ]Y'Z\(\hat{X}\)h][Y'?Uff]YfYk Y[Y'a]h'[i hYb'6Yfi ZgW\(\uddy\)bW'b'ZfYi Yb\(\z'\)X]Y
Xi fW\(\x'\)]bY'\(\z'\) bX]YfhY'\(\si\)i gV]\'Xi b[']b'K]fhgW\(\uddy\)UZh'i bX'\(\z'\)Ya]Y
[Ydf\(\hat{A}\)[h'g]bX''

 $: \emptyset f'k Y]hYfY' + DZcfa Uh]cbYb' \emptyset VYf'XYb'bYi Yb'A UghYfghi X]Yb[Ub[ibX'XUg'6Yk YfVib[gjYfZU\fYb'VYgiWXYb'G]Y'V]hhY'X]Y' < ca YdU[YXYf'Ib]j Yfg]hAh'FcghcW_ž'X]Y'Ib]j Yfg]hAh'FY[YbgVif['gck]YX]Y'HYWXb]gWXY' < cWXgWXi Y'@\emptysetVYW_"$ 

8 YhU]`g	
JcfZU``	Gcbgh][ Yg
Cfh	FcghcW_ž8YihgWX`UbX
EiY``Yb	<ul> <li>k k k "i b]!fcghcW_"XY</li> </ul>
	<ul><li>k k k "i b]!fY[YbgVi f["XY</li></ul>
	• k k k "h\!`i YVYW_"XY

6 Y gi W Y b 'G ] Y 'i b g 'U i Z 'b ! U [ "b Y h