

## 8cbUi]bgY`ZYgh'&\$&).'9ifcdUg'[fÒ»hYg CdYb!5]f!GdY\_hU\_Y`'Yfk UfhYh'X]WX°



8 Ugʻ8 cbUi ]bgY`ZYghʻ\UhʻY]bYʻ`Ub[YʻHfUX]h]cb. `GY]hʻØVYfʻ(\$ʻ\$U\fYb n]Y\hʻYgʻA]``]cbYbʻj cbʻ6Ygi W\YfbʻUb"ʻI bXʻXUgʻ6YghYʻXUfUb3ʻ8Yf 9]bhf]hhʻ]ghʻZfY]° `CVʻ?i`]bUf]\_žʻAig]\_ `cXYfʻ5\_h]cb```\]Yfʻ]ghʻZØfʻYXYbYhk UgʻXUVY]"ʻI bXʻXUa]hʻYgʻUi W\k]f\_`]W\Zf]YX`]W\ni[Y\hžʻghY\hfYgdY\_hj c``Ygʻi bXʻZf]YX`]W\YgʻA]hY]bUbXYfʻ]a 'A]hhY`di b\_hʻX]YgYg 9j Ybhq"

## 6Ygi WXYf]bZcfa Uh]cbYb

A ]h'Y]bYa 'VYY]bXfi W\_YbXYb': Ygh]j U`[Y`ÀbXY'j cb'fi bX'(ž)?]`ca YhYf'@Àb[Y']gh'XUg'8cbUi ]bgY`ZYgh'Y]bY'A Y[Uj YfUbghU`hi b[ž X]Y'j cf'U``Ya 'Xi fW.'X]Y'J ]Y`ZU`h'VYgh]W\h''l a 'XYb'HU[i bVYgW\k Yfh'[Yb]Y» Yb'ni '\_O`bbYbž'k YfXYb'Y]b'dUUf'H]ddg'ni f G]W\Yf\Y]h'i bX'5bfY]gY'[Y[YVYb"'8]Y'K YhhYfj cf\YfgU[Y']gh'XUVY]nYbhfU`.'CV'gcbb]['cXYf'fY[bYf]gW\ž'DUggYbXY'?cdZVYXYW\_i b[YbibX'Ui gfY]W\YbX'K UggYf'gc``hYb'b]W\h'ZY\`Yb"'6Y]'FY[YbYa dZ]Y\`h'g]W\Y]b'DcbW\c'' FY[YbgW\]fa Y'g]bX'Ui Z'XYa '; Y`ÀbXYb]W\h'Yf`Ui Vh"

K UgʻX]YʻG]WXYf\Y]hʻVYhf]Zhžʻgcʻ]ghʻXUgʻ8cbUi ]bgYʻZYghʻY]bYgʻXYf
Zf]YXʻ]WXghYbʻ9j YbhgʻX]YgYfʻ; fò» YbcfXbi b["'À\f`]WXʻk]fXʻY]b
i a ZUggYbXYgʻG]WXYf\Y]hg!ʻi bXʻ5k UfYbYgg\_cbnYdhʻ]b
Ni gUa a YbUfVY]hʻa ]hʻXYbʻni ghÀbX][Ybʻ6Y\ÒfXYbʻi a [YgYhnh''
8UZØfʻghY\Ybʻ: Yi Yfk Y\fžʻDc`]nY]žʻGUa Uf]hYfVi bXʻi bXʻ[i h
[YgWXi`hYʻG]WXYf\Y]hg\_fÀZhYʻfi bXʻi a 'X]YʻI \fʻVYfY]hžʻi a
DfcV`Ya YʻZfØ\nY]h]['ni 'Yf\_YbbYbʻi bX'ni '`ÒgYb''·5i WX`X]Y
G]WXYf\Y]hʻXYfʻ6Ygi WXYfʻ]ghʻXi fWXʻa cV]`YʻHYUa gʻj cb
GYY`gcf[Yf.]bbYbʻi bXʻ6YfUhYfbʻZØfʻGi WXhI i bXʻ8fc[YbdfÀj Ybh]cb
[Yk À\f`Y]ghYh''8Yfʻ\dotboxybchfi Zʻ]ghʻZØfʻU``Yʻ6Ygi WXYfʻi bhYfʻŽ ('''%
&+\$`\$('&\$`YffY]WXVUf''

## 5bfY]gYiibXiDUf\_a Ò[`]WX\_Y]hYb

A ]h'XYf'5bfY]gY'k ]fX'Ya dZc\`Ybž'Ui Z'ÒZZYbh`]WXY'J Yf\_Y\fga ]hhY` ni 'gYhnYb"'8 ]Y'I !6U\b!GhUh]cbYb' < UbXY`g\_U]ž'BYi Y'8cbUi 'i bX 8cbUi ]bgY`'V]YhYb'X]fY\_hYb'Ni [ Ub[ 'ni a ': Ygh]j U`[ Y`ÀbXY"'6YfY]hg UVYbXg'\UVYb'X]Y'K ]YbYf'@]b]Yb'X]Y' $\Rightarrow$ hYfj U``Y'Ui Z'XfY]'A ]bi hYb j Yf\_Øfnhž'XUa ]h'[fÒ» YfY'6Ygi WXYfnU\`Yb'dfcV`Ya `cg'VYk À`h][ h k YfXYb'\_ObbYb"': Øf': U\ffUXZU\fYf'[ ]Vh'Yg'VYk UWXhY : U\ffUX[ UfU[ Yb'XYg'5F62' ni a '5VghY``Yb']\fYf'FÀXYfž'XU'XUg A ]hVf]b[ Yb'j cb': U\ffÀXYfb'i bX'9!GWcchYfb'Ui Z'XYa'; Y`ÀbXY i bhYfgU[ h']gh"

I a 'X]Y'J YfUbghU`hi b['fY]Vi b[g`cg'Xi fW\ZØ\fYb'ni '\_ÒbbYbžki fXY'Ui W\'Y]b'qdYn]Y``Yf'G\i hh`YX]Ybqh'ZØf'A YbqW\Yb'a ]h

6Y\]bXYfi b[Yb'cf[Ub]g]Yfhž'XYf'YXcW\']a 'JcfUi g'Ub[Ya Y`XYh k YfXYb'a i gg"'8U'Yg'Ui Z'XYf'8cbUi ]bgY`'bi f'VY[fYbnhY DUf\_a Ò[`]W\\_Y]hYb'[]Vhž'k]fX'Y]bY'5bfY]gY'a ]h'XYa '5i hc'b]W\h Ya dZc\`Yb"

## G]WXYfY]hibX < m[]YbY

G]WXYf\Y]h`\Uh`VY]'[fc»Yb:Ygh]j U`g`\ÒWXghY`Df]cf]hÀh''8]Y

J YfUbghU`hYf`\UVYb'Y]bYb'XYhU]``]YfhYb'9j U\_i ]Yfi b[gd`Ub'YfghY``h
i bX`UfVY]hYb'ni gUa a Yb'a ]h``c\_U`Yb'6Y\ÒfXYbži a 'X]Y

G]WXYf\Y]h`U``Yf`HY]`bY\a Yf`ni '[Yk À\f`Y]ghYb"

DfÀj Ybh]cbgghfUhY[]Yb'k]Y'\_`UfY': `i WXhk Y[Yž'[i h`Ui g[YghUhhYhY
9fghY!<]`ZY!GhUh]cbYb'i bX`[YgWXi `hYg`DYfgcbU``g]bX`GhUbXUfX"'9]b
nYbhfU`Yg'?ca a i b]\_Uh]cbggmghYa 'Yfa Ò[`]WXhYgž'gWXbY```Ui Z
a Ò[`]WXY'; YZU\fYb'ni 'fYU[]YfYb'i bX'X]Y' \DZcfa Uh]cbYb'YZZ]n]Ybh
k Y]hYfni [YVYb"'8 Ug': Ygh]j U``]gh'g]WX'XYf'<YfUi gZcfXYfi b[Yb
VYk i ggh'i bX'bi hnh'a cXYfbghY'HYWXb]\_Yb'gck]Y'ØVYf'' \$'gdYn]Y``
[YgWXi `hY': Ygh]j U`gYY`gcf[Yf.]bbYbži a 'Y]bYb'i bj Yf[Ygg`]WXYbž
UVYf'Ui WX'q]WXYfYb'5i ZYbh\U`h'ni '[UfUbh]YfYb"

5i Z'XYf'cZZ]n]Y``Yb`K YVg]hY`XYg`8cbUi ]bgY`ZYghg`Z]bXYb
]bhYfYgg]YfhY`6Ygi W\Yf`k Y]hYfZØ\fYbXY`±bZcfa Uh]cbYb`ni
Dfc[fUa a ž'5bfY]gY`gck]Y`XYb`G]W\Yf\Y]hga U»bU\a Yb"`5i W\`XUg
K ]ggYb`VYZUggh`g]W\`XUa ]hž`k]Y`k]W\h][`X]Y`JcfVYfY]hi b[`Ui Z
XYfUfh][Y; fc»j YfUbghU`hi b[Yb`]ghž`i a 'ZØf`U``Y`HY]`bY\a Yf`Y]b
g]W\YfYg`I a ZY`X`ni 'gW\UZZYb"

K Yf'X]Y'; Y`Y[Yb\Y]h'\Uhž'gc``hY'g]W\'XUg'8cbUi]bgY`ZYgh'b]W\h Ybh[Y\Yb'`UggYb"'8Yf'&\$"'V]g'&&"'\$\idot\b]'&\$&) 'j Yfgdf]W\h i bj Yf[Ygg`]W\Y'9f`YVb]ggY'i bX'YW\hY'A ca YbhY'Ui Z'XYf 8cbUi]bgY``'; Ubn'bUW\'XYa 'A chhc.'GY]X'XUVY]'i bX'[Yb]Y»h'X]Y NY]h']b'Y]bYf'Vi bhYbž'`YV\UZhYb'5ha cgd\ÀfY"

8 Ugʻ5j ]Uh]cbʻA U[ Un]bʻVYf]W\hYhʻØVYfʻX]Yʻk ]W\h][ ghYbʻ: U\_hYbʻi bX = \( \frac{1}{2} \)Zcfa Uh]cbYbʻni a `: Yghʻi bX'j Yfgcf[ h'X]Yʻ@YgYfʻa ]h'U\_hi Y``Yb I dXUhYg"'5`gcžʻZYghYgʻGW\i \k Yf\_ʻgW\bØfYbʻi bX'UVʻni f 8 cbUi ]bgY``

8YhU]`g	
Cfh	< Y]`][YbghUXhž'²ghYffY]W\
Ei Y``Yb	• Uj ]Uh]cb"X]fYWh
	<ul><li>XcbUi ]bgY`ZYgh"Uh</li></ul>
	<ul><li>XUg!k ]ggYb"XY</li></ul>

6Ygi WXYb G]Y i bg Ui Z a Y]b!k]Yb"bYh