

# 5`\_c\c`]g]YfhYf'5i hcZU\fYf'dfcj cn]Yfh GhfY]h'i bX': `i W\h']b'9fZi fh

 $\pm$ 0 '9fZi fh'ZØ\fhY'i bg]W\YfY': U\fk Y]gY'ni 'Y]bYa 'GhfY]hž'XYf']b Y]bY'F Ui ZYfY]'a ØbXYhY"'5`\_c\c`'Ua 'GhYi Yf'V`Y]Vh'Y]b'F]g]\_c"

#### 9fZi fh'flchgŁ

9]bY'i bgW\ ObY'G]hi Uh]cb'\Uh'g]W\ 'Ua': fY]hU[ UVYbXž'XYb &' "\$, "&\$&(ž'Ui Z'Y]bYa 'DUf\_d`Uhn']b'XYf'K Y]a Uf]gW\Yb'GhfU» Y']b 9fZi fh'YfY][ bYh''8 UVY]'[ Yf]YhYb'nk Y]'A AbbYf']a '5`hYf'j cb'' ) 'i bX' ', '\$\J\fYb']b'Y]bY'\UbX[ fY]Z]W\Y'5i gY]bUbXYfgYhni b[ "'5i g`OgYf k Uf'Y]b'i bg]W\YfYg': U\fj Yf\U'hYb'XYg'\Øb[ YfYb': U\fYfgž'XYf'g]W\ni bAW\gh'Xi fW\'UVfi dhYg'i bX'i bYf\_`Af`]W\Yg'HYa dc'k YW\gY`hY'' 6Y]XY': U\fYf\\UhhYb'Yg'UbgW\Y]bYbX'Y]`][ ž'XU'g]Y'ni Z\A``][ 'XYb [ `Y]W\Yb'DUf\_d`Uhn'UbghYi YfhYb''

8 Yf'À`hYfY'A Ubbž'', '\$J\fY'U`hž'gi W\hY'XUg'; YgdfÀW\ž'i a 'Ui Z'XUg Ui ZZÀ``][Y': U\fj Yf\U`hYb'gY]bYg'; Y[YbØVYfg'\]bni k Y]gYb"'@Y]XYf bU\a 'X]Y'G]hi Uh]cb'Y]bY'XfUa Uh]gW\Y'K YbXi b[.'8 Ug'; YgdfÀW\Yg\_U`]YfhY'gW\bY``i bX'j Yfk UbXY`hY'g]W\']b'Y]bY'F Ui ZYfY]ž'X]Y'XUg Zf]YX`]W\Y'A ]hY]bUbXYf'Ua '5VYbX'Yf\YV`]W\'ghÒfhY"

### 8]Y: c`[Yb'XYf'5igY]bUbXYfgYhnib[

#ba ]hhYb'X]YgYf'j YfVU`Yb'i bX'd\mg]gW\Yb'5i gY]bUbXYfgYhni b[
Yf[f]ZZ'XYf'')!À\f][Y'gW\`]Y»`]W\X]Y': `i W\h'i bX'k c``hY'a ]h'gY]bYa
HcmchU'j ca 'DUf\_d`Uhn'k Y[`Ui ZYb"'GY]bY': `i W\h'k Uf'U``YfX]b[g
j cb'\_i fnYf'8 Ui Yfž'XYbb'X]Y'6YUa hYb'XYg' ♣'GØX'k UfYb'gW\bY``
ni f'GhY``Y'i bX'\_cbbhYb']\b'ghY``Yb"'6Y]'XYf'?cbhfc``Y'ghY``hY'g]W\
\YfUi gž'XUgg'XYf'A Ubb'Yf\YV`]W\'U`\_c\c`]g]Yfh'k Uf"'GY]b
5hYa U`\_c\c`k Yfh'VYhfi ['[UbnY'%ž)'Dfca]``Yž'k Ug'ZØf'Y]bYb

 $8 ]Y \cdot Dc `]nY] `Y]hY hY \cdot gc Zc fh `Y]b \cdot J Y fZU \setminus fY b \cdot k \ Y[Yb \cdot Hfi b_Yb \setminus Y]h']a \\ J Y f_Y \setminus f'i b X \cdot ? O fd Y fj Y f `Y hni b[ Y]b '' 8 Y f ' Ø b[ Y f Y : U \ f Y f a i gghY Y]b Y \cdot 6 `i hd fc V Y \cdot U V[ Y V Y b ž V Yj c f 'Y f 'gW X `]Y » `]WX ž 'c \ b Y : U \ fn Y i [ ž X Y b ' < Y]a k Y[ 'ni :: i » 'U b hf Y h Y b '_c b b h Y '' 8 Y f 'J c f Z U `` `n Y][ h Y]b a U `a Y \ f ž k ] Y \cdot gWX b Y `` Y]b \cdot J Y f_Y \ f gghf Y]h Y g_U`]Y f Y b '_U b b 'i b X 'k Y `WX Y : c`[ Y b 'Y]b \cdot Ø V Y fa À » ][ Y f \cdot 5 `_c \ c`_c b gi a `\ U V Y b `_U b b ''$ 

## $G]WXYfY]h^{-}a^{-}GhfU*YbjYf_YYf$

8]Y'9d]gcXY'i bhYfghfY]W\h'X]Y'6YXYi hi b['j cb
j YfUbhk cfhi b[gVYk i gghYa :: U\fYb'i bX'XYb'J Yfn]W\h'Ui Z'5`\_c\c`ž
VYgcbXYfg'k Ybb'a Ub'gY`Vgh'\]bhYf'XYa 'GhYi Yf'g]hnh"

JYf\_Y\fgg]W\Yf\Y]h'gc``hY'YXYa 'J Yf\_Y\fghY]`bY\a Yf'Ua '< YfnYb
`]Y[Ybž'i bUV\Àb[]['j cb'XYf'G]hi Uh]cb'Ui Z'XYf'GhfU» Y"'8Yf'J cfZU``
gc``hY'U`g'K Ufbi b['X]YbYb.'5[[fYgg]cb'i bX'5`\_c\c``Ua 'GhYi Yf
ZØ\fYb'b]W\h'bi f'ni 'fYW\h']W\Yb'?cbgYei YbnYbž'gcbXYfb'Ui W\'ni
[YZÀ\f`]W\Yb'G]hi Uh]cbYb']a 'ÒZZYbh`]W\Yb'FUi a "

8]Y'Dc`]nY]'\Uh'YfbYi h'VYhcbhž'k]Y'k]W\h]['Yg']ghž']b
?cbZ]\_hg]hi Uh]cbYb'Fi\Y'ni 'VYk U\fYb'i bX']a 'Nk Y]ZY`'Ui Z'Y]b
XYfUfh'f]g\_UbhYg'J Yf\U`hYb'ni 'j Yfn]W\hYb"'8]Y
5i gY]bUbXYfgYhni b['\ÀhhY'j]Y`'gW\`]a a Yf'YbXYb'\_ObbYbž'i bX'Yg
]gh'XUg'dYfgOb`]W\Y'; 'ØW\_'XYf'VYhY]`][hYb'DYfgcbYbž'XUgg'XYf
JcfZU``'b]W\h'bcW\'kY]hYf'Yg\_U`]YfhY"'8UVY]'\_ObbhYb'XYfUfh][Y
GhfY]h][\_Y]hYb'cZh'Xi fW\'Y]b'\OZ]W\Yg'; YgdfÀW\'cXYf'Y]bZUW\Yg
= bcf]YfYb'XYf'G]hi Uh]cb'j Yfa ]YXYb'k YfXYb"

8]Y; YZU\fYb`XYg`GhfU»Ybj Yf\_Y\fg`g]bX`j]Y`ZÀ`h][ži bX`X]YgYg 9fY][b]g`Yf]bbYfhi bg`XUfUbž'UW\hgUa `ni `gY]b` `b]W\h'bi f`ZØf i bgYfY`Y][YbY`G]W\Yf\Y]hž`gcbXYfb`Ui W\`ZØf`X]Y`XYf`UbXYfYb JYf\_Y\fghY]`bY\a Yf"`¾XY`5i gY]bUbXYfgYhni b[`Ui Z`XYf`GhfU»Y \_ÒbbhYž`k]Y`a Ub`g]Y\hž`gW\bY```Ui »Yf`?cbhfc``Y`[YfUhYb`i bX`ni Y]bYf`YfbghYb`@U[Y`ZØ\fYb"

< ]bhYf[ fi bX]bZcfa Uh]cbYb ni Hfi b\_Yb\Y]h</pre>

#### Ua 'GhYi Yf

8 UgʻXYi hgWXYʻFYWXhʻg]Y\h'VY]ʻY]bYa ʻ5hYa Uʻ\_c\c`k Yfhʻj cbʻ\$ž)
Dfca ]``YʻVYfY]hgʻY]bYʻCfXbi b[gk]Xf][\_Y]hʻj cfžʻX]Yʻa ]hʻ6i »[Y`XYfb i bXʻDi b\_hYbʻ]bʻ: `YbgVi f[ʻ[YU\bXYhʻk]fX"ʻ6Y]ʻY]bYa ʻK Yfhʻj cb %ž%ʻDfca ]``YʻcXYfʻa Y\fʻ[]`hʻY]bʻ: U\fYfʻU`gʻUVgc`i hʻZU\fi bhØWXh][ž k Ugʻb]WXhʻbi fʻghfUZfYWXh`]WXYʻ: c`[Ybʻ\UVYbʻ\_UbbžʻgcbXYfbʻUi WXgWXkYfk]Y[YbXYʻ?cbgYei YbnYbʻZØfʻX]YʻJYf\_Y\fgg]WXYf\Y]hʻa ]h g]WXʻVf]b[hʻ'BYVYbʻfYWXh`]WXYbʻA U» bU\a Ybʻg]bXʻUi WX[YgY``gWXUZh`]WXYʻ? Ua dU[bYbʻni fʻGYbg]V]`]g]Yfi b[ʻj cbʻ: U\fYfb ZØf`X]Yʻ; YZU\fYbʻXYgʻ5`\_c\c`\_cbgi a gʻ]a ʻGhfU»Ybj Yf\_Y\fik]WXh]["

# GhUh]gh]\_Yb'i bX'8UhYb'ni f JYf\_Y\fgg]WXYf\Y]h

8]Y'JYf\_Y\fgg]W\Yf\Y]h']b'8Yi hgW\`UbX`\Uh']b'XYb'`YhnhYb'\\J\fYb gck c\``Xi fW\'df\'aj Ybh]j Y'A U\'b bU\a Yb'U`g'Ui W\'Xi fW\\hYW\bc`c[]gW\Y': cfhgW\\f]hhY']b'XYf'5i hca cV]`]bXi ghf]Y: cfhgW\\f]hhY'[Ya UW\\h''8YbbcW\'V`Y]Vh'X]Y'<YfUi gZcfXYfi b[\'z': U\\fYf'ni '\ØVYfnYi [Yb\'z'] YfUbhk cfhi b[gVYk i gghY'9bhgW\Y]Xi b[Yb ni 'hfYZZYb'''9]bY'U\_hi Y``Y'I a ZfU[Y'XYg'8Yi hgW\Yb JYf\_Y\fgg]W\Yf\Y]hgfUhYg'fBJF\!\nY][h\'z\XUgg'(('i 'XYf'6YZfU[hYb a Y\\f'5i Z\_`\Afi b['\ØVYf'X]Y'; YZU\\fYb'XYg': U\\fYbg'i bhYf 5`\_c\c`Y]bZi gg'Z\@f'bchk YbX]['\U`hYb'''8]YgY'5i Z\_`\Afi b[gUfVY]h \_\ObbhY'YbhgW\\Y]XYbX'gY]b\'zi a 'XUg'6Yk i gghgY]b'Z\@f'X]Y'bY[Uh]j Yb 5i gk]f\_i b[Yb'j cb'5`\_c\c`'Ua 'GhYi Yf'ni 'gW\\AfZYb''

9]b'k Y]hYfYg'VYa Yf\_Ybgk YfhYg'9f[ YVb]g'g]bX'X]Y'XfUgh]gW\Yb FØW\_[ Àb[ Y VY] XYf'NU\`XYf'J Yf\_Y\fghchYb']b'XYb'`YhnhYb \$J\fnY\bhYb"=a '\$J\f'&\$&&'k i fXYb']b'8Yi hgW\`UbX']bg[ YgUa h &"--\$'HcXYgZ\`Y']a 'GhfU\Ybj Yf\_Y\f'[ Yn\\`hz'k Ug'Y]bYb \_cbh]bi ]Yf']W\Yb'FØW\_[ Ub[ ']a 'J Yf[ 'Y]W\'ni 'XYb'J cf'U\fYb'nY][ h" 8]Y'NU\`XYf'U`\_c\c`VYX]b[ hYb'J Yf\_Y\fgXY`]\_hY']gh'YVYbZU``g [ Ygi b\_Ybz'`Ui h'ghUh]gh]gW\Yb'9f\YVi b[ Yb'XYg'?fUZhZU\fh! 6i bXYgUa hYg'fl'65Ł'i a 'Yhk U'%\$'i 'nk ]gW\Yb'&\$%, 'i bX'&\$&&'' 8]YgY'9bhk ]W\_`i b[ Yb'g]bX'Yfa i h][ YbXz'nY][ Yb'UVYf'Ui W\z'XUgg'Yg k Y]hYf\]b'bchk YbX][ ']ghz'df\hataj Ybh]j Y'A U\Xb'ni 'j Yfgh\haf\_Yb i bX'g]W\'bUW\\U`h][ 'a ]h'XYa 'H\Ya U'XYf'Hfi b\_Yb\Y]h']a GhfU\XYbj Yf\_Y\f'ni 'VYgW\\AZh][ Yb"

- &\$&&. `FibX`' "\$\$\$`U`\_c\c`VYX]b[hY`JYf\_Y\fgibZÀ``Y`a]h DYfqcbYbqW\AXYb"
- (( 'i 'XYf'6YZfU[hYb'\U`hYb'a Y\f'5i Z\_`Àfi b['ØVYf 5`\_c\c`\_cbgi a ']a 'GhfU $_$ Ybj Yf\_Y\f'ZØf'bchk YbX]["

### < ]ghcf]gWXY DUfU``Y`Yb</pre>

Ÿ\b`]W\Y`JcfZÀ``Y`jcb`Hfib\_Yb\Y]h`Ua `GhYiYf`ibX`XYfYb`gcn]U`Y
FY`YjUbn``UggYb`g]W\`]b`jYfgW\]YXYbYb`9dcW\Yb`VYcVUW\hYb"
6YfY]hg`]b`XYb`%-+\$Yf`\J\fYb`[UV`Yg`]b`8YihgW\`UbX`Y]bY
U`Ufa ]YfYbXY`NU\``Ub`IbZÀ``Yb`UiZ[fibX`U`\_c\c`]g]YfhYb`:U\fYbgZkUg`ni`XYf`9]bZØ\fib[`XYf`YfghYb`5iZ\_`Afib[g\_UadU[bYb`ZØ\fhY"8]YgY`?UadU[bYb`n]Y`hYb`XUfUiZ`UVŽX]Y`OZZYbh`]W\Y
KU\fbY\aib[`ibX`XUg`6YkigghgY]b`ZØf`X]Y`;YZU\fYb`jcb5`\_c\c``Ua`GhYiYf`ni`qW\AfZYb"

9]bY'VY\_UbbhY'?Ua dU[bY'Ui g'X]YgYf'NY]h'k Uf'X]Y'D`U\_UhU\_h]cb ?ca a Yb'G]Y'[i h'bUW\'<Ui gY ž'X]Y'XUfUi Z'UVn]Y`hYž'XYb': U\fYfb \_`Ufni a UW\Ybž'XUgg'g]Y'gY`Vgh'VY]' [Yf]b[Ya '5`\_c\c`\_cbgi a X]Y'?cbhfc``Y'ØVYf']\f': U\fnYi ['j Yf`]YfYb'\_ObbhYb"'8Yf [YgY``gW\UZh`]W\Y'8fi W\_ž'j YfUbhk cfhi b[gVYk i ggh'ni '\UbXY`bž k i W\gž'i bX']b'XYb'Zc`[YbXYb'\J\fYb'k i fXYb'X]Y'[YgYhn`]W\Yb ; fYbnYb'ZØf'5`\_c\c`'Ua 'GhYi Yf']a a Yf'ghfYb[Yf'[YZUggh"'9]b

JYf[`Y]WX`XYf`XUa U`][Yb`G]hi Uh]cbYb`a ]h`\Yi hY`nY][hž`XUggž`hfchn U``Yf`: cfhgWXf]hhYž`X]Y`DfcV`Ya Uh]\_`k Y]hYf\]b`fY`Yj Ubh`V`Y]Vh`i bX ghÀbX][Y`5i Za Yf\_gUa \_Y]h`YfZcfXYfh"`8]Y`ghUh]gh]gWXYb 9f\YVi b[Yb`nY][Ybž`XUgg`5i Z\_`Àfi b[`i bX`[YgYhn`]WXY FY[Y`i b[Yb`k Y]hYf\]b`YfZcfXYf`]WX`g]bXž`i a `X]Y`G]WXYf\Y]h`Ui Z XYb`GhfU» Yb`ni `[Yk À\f`Y]ghYb"

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z b!U[ "XY