

## $GWX k YfYf'J Yf_Y fgi bZU```]b `C VYfVUmYfb.$ Nk Y]'J Yf`YhnhY'bUWX '? c``]g]cb

Nk Y]: U\fnYi [ Y`\_fUWXYb`]b`CVYfVUmYfb`ZfcbhU``ni gUa a Yb" Nk Y]`DYfgcbYb`j Yf`Yhnh": Yi Yfk Y\f`i bX`FYhhi b[ gX]Ybgh`]a 9]bgUhn"

± XYb ZfØ\Yb A cf[Ybghi bXYb XYg %, "5i [i gh &\$&( YfY][bYhY g]WX Y]b gW k YfYf J Yf\_Y\fgi bZU```Ui Z XYf 6i b XYgghfU» Y 6&% ]b C VYfVUmYfb "Nk Y]: U\fnYi [YžY]b J K ii bX Y]b ? ]Už \_c``]X]YfhYb ZfcbhU``\_i fn j cf Y]bYf 5i hcVU\bi bhYfZØ\fi b[ 'VY] GW k UfnVUWX "8 Yf I bZU``ž XYf i a ''.(\$ I \f [Ya Y`XYh k i fXYž ZØ\fhY ni 'a ]hhYfYb J Yf Yhni b[Yb VY] VY]XYb : U\fYfb "8 Ug 6 UmYf]gW Y F chY ? fYi n fb F? Ł VYghÀh][hY ]b Y]bYf DfYggYa ]hhY]`i b[ 'X]Y GW k YfY XYg J cfZU``g"

6Y] XYa 'Ni gUa a Ybghc» 'k UfYb 'gck c\``X]Y : U\fYf'U`g'Ui W\`X]Y YfghYb '9]bgUhn\_fÀZhY 'Ui Z'XYf'I bZU``ghY``Y 'gW\bY```ni f'GhY``Y" 8Yf Bchfi Zž'XYf'j ]U'Ui hca Uh]gW\Yg'Bchfi Z!GmghYa 'Y]bYg'XYf VYhY]`][ hYb : U\fnYi [ Y 'Y]b[ ]b[ ž'hfi [ 'ni f'gW\bY``Yb FYU\_h]cb 'XYf FYhhi b[ gX]YbghY 'VY]" 'K Yb][ Y 'A ]bi hYb 'bUW\ XYf'5`Ufa ]Yfi b[ ZcfXYfhYb 'X]Y '9]bgUhn\_fÀZhYž'X]Y 'ni Yfgh'Y]bhfUZYbž'J YfghÀf\_i b[ 'Ubž k Ug'X]Y '8f]b[`]W\\_Y]h'XYf'G]hi Uh]cb ii bhYfghf]W\"

## $FUgWXY]b[YgYhnhYFYhhib[g_fÀZhY]$

8]Y: fY]k]``][Y: Yi Yfk Y\f'6UX`FY]W\Yb\U```k Uf'a]h']\fYa@ÒgW\ni ['Ubk YgYbX'i bX'ØVYfbU\a 'b]W\h'bi f'X]Y'G]W\Yfi b['XYf I bZU``ghY``Yž'gcbXYfb'\_Øa a YfhY'g]W\'Ui W\'i a 'XYb'6fUbXgW\i hn"; `Y]W\nY]h]['k i fXYb'nk Y]`FYhhi b[gk U[Yb'XYg'FY]W\Yb\U``Yf'i bXXYg': fY]`Ugg]b[Yf'FchYb'?fYi nYg'gck]Y'Y]b'BchUfnh'Ui g'6UXFY]W\Yb\U```YbhgUbXh''6Y]XY'j Yf`YhnhYb': U\fYf' 'Y]bY') &! 'À\f][Y

: fUi 'Ui g'XYf'FY[]cb'i bX'Y]b''  $$!'A\f][Yf'A Ubb'Ui g'< YggYb' Yf\]Y`hYb'j cf'Cfh'a YX]n]b]gW\Y'<]`ZYž'VYj cf'g]Y'ni f'k Y]hYfYb 6Y\UbX`i b[']b'X]Y'?fY]g_`]b]_'6UX'FY]W\Yb\U``'[YVfUW\h'k i fXYb"$ 

8]Y:: Yi Yfk Y\figY`VghiU[]YfhYib]Wkhibi fi]a i6YfY]WkiXYf
a YX]n]b]gWkYbi9fghj Yfgcf[i b[žgcbXYfbik UfiUi WkiZØfiX]Y
5Vg]WkYfi b[iXYfil bZU``ghY``Yij YfUbhk cfh`]Wkii8]YgiVY]b\U`hYhYiX]Y
FY]b][i b[iXYfi: U\fVU\bigck]YiXUgi5i g`Yi WkhYbiXYf
9]bgUhnghY``Yži a iX]YiG]WkYf\Y]hiU``Yfi6YhY]`][hYbii bXiXYf
DUggUbhYbini i[Yk À\f`Y]ghYbii8Ub\_iXYgifY`Uh]jib]YXf][Yb
JYf\_Y\fgUi Z\_ca a Ybgini iX]YgYfiZfØ\Ybil\fnY]hi\_cbbhYbi[fò»YfY
JYf\_Y\fgVY\]bXYfi b[Ybij Yfa]YXYbik YfXYbžcVk c\``X]YiGhfU»Y
j cfØVYf[Y\YbXij c``ghÀbX][i[YgdYffhik i fXY"

## Dc`]nY] i bhYfgi W\h'XYb'l bZU``\Yf[Ub[

Ni f'[YbUi Yb'9fa]hhìi b['XYg'<Yf[Ub[g'XYg'I bZU``g'ghY``hY'X]Y FY]W\Yb\U``Yf'Dc`]nY]'Y]bY'9fa]hhìi b[g[fi ddY'ni gUa a Yb"'8]YgY 6YUa hYb'bY\a Yb'X]Y'bchk YbX][Yb'5i ggU[Yb'i bX'6Yk Y]gY'Ui Zžia 'X]Y'I fgUW\Yb'XYg'Ni gUa a Ybghc» Yg'ZYghni ghY``Yb"'Gc`W\Y bZ\A``Y'k YfZYb'cZh': fU[Yb'ni f'JYf\_Y\fgg]W\Yf\Y]hii bX'XYb VYhY]`][hYb': U\fYfb'Ui Zž']bgVYgcbXYfY']b'Y]bYf'FY[]cbž'X]Y'j cb\Ai Z][Yb'JYf\_Y\fgi bZ\A``Yb'VYhfcZZYb']gh"

8]Y'6Yk c\bYf'j cb'6UX'FY]WXYb\U``i bX'I a [YVi b['k UfYb gW\cW\_]Yfh'ØVYf'XYb'J cfZU``ž'XYf'bi f'k Yb][Y'Ghi bXYb'bUWX A]hhYfbUWX h'[YgWXU\"'8]Y'5i ggU[Yb'XYf'Dc`]nY]'i bX'XYf FYhhi b[g\_fÀZhY'`UggYb'XUfUi Z'gWX`]Y»Ybž'XUgg'Yg'hfchn'XYf GWXk YfY'XYg'Ni gUa a Ybghc»Yg'Ui WX'; `ØW\_']a 'I b[`ØW\_'[UVž'XU X]Y'JYf`Yhni b[Yb'b]WXh'`YVYbgVYXfc\`]WX'k UfYb"

±b 'Y]bYa '[fÒ» YfYb '?cbhYl h'VYhfUW.hYhž'`Y[h'X]YgYf'l bZU```XYb c\_i g'Ui Z'X]Y 'J Yf\_Y\fgg]W.Yf\Y]h'Ui Z'XYb 'GhfU» Yb '6UmYfbg'i bX Yf]bbYfh'X]Y '5i hc ZU\fYf'XUfUbž'ghYhg'J cfg]W.h'k U`hYb 'ni '`UggYb" l bZÀ``Y'X]YgYf'5fh'\_ÒbbYb 'b]W.h'bi f'gW.k YfY'J Yf`Yhni b[Yb 'bUW.\g]W.\n]Y\Ybž'gcbXYfb 'Ui W. 'XUg'@YVYb'XYf'6YhfcZZYbYb'bUW.\U`h][VYY]bZi ggYb"

5i Z'XYf'Gi WXY'bUWX'J YfVYggYfi b[Yb']b'XYf
GhfU» Ybj Yf\_Y\fgg]WXYf\Y]h'g]bX'`c\_U`Y' =b]h]Uh]j Yb'[YZcfXYfhž'i a
gc`WXY'JcfZÀ``Y']b'Ni \_i bZh'ni 'a ]b]a ]YfYb"'FY[Y`a À»][Y
GWXi `i b[Yb'i bX'GYbg]V]`]g]Yfi b[ga U» bU\a Yb'\_ObbhYb'XUni
VY]hfU[Ybž'XUg'JYf\U`hYb']a 'GhfU» Ybj Yf\_Y\f'ni 'cdh]a ]YfYb'i bX
hOX`]WXY'I bZÀ``Y'ni 'j Yf\]bXYfb"

8 Yf'I bZU``ž'XYf'g]W\`Ua '%, "'5i [i gh'&\$&('bU\Y'6UX'FY]W\Yb\U``
YfY][bYhYž'ghY\h']a '?cbhYI h'Y]bYf'FY]\Y'j cb'J Yf\_Y\fgi bZÀ``Ybž
X]Y'\Ài Z]['Ui Z'XYf'6&%'i bX'UbXYfYb'6i bXYgghfU» Yb']b'6UmYfb
[YgW\Y\Yb"'@Ui h'Y]bYf'GhUh]gh]\_'XYg'6UmYf]gW\Yb
JYf\_Y\fgg]W\Yf\Y]hgfYdcfhg'&\$&' 'g]bX'JYf\_Y\fgi bZÀ``Y']b'6UmYfb
]bg[YgUa h'i a '(ž) 'i '[Ygh]Y[Yb"'6YgcbXYfg']b'6Yf[fY[]cbYb'k]Y
CVYfVUmYfb'hfYhYb'\Ài Z]['I bZÀ``Y'Ui Zž'XU'\]Yf'Yb[Y'GhfU» Ybž
\_i fj YbfY]W\Y'GhfYW\_Yb'i bX'i bhYfgW\]YX`]W\Y'K YhhYfVYX]b[i b[Yb

8]Y'JYf\_Y\fgg]W\Yf\Y]h'\Uh']b'XYb'`YhnhYb'\\J\fYb'Ub'6YXYi hi b[
[Yk cbbYbž'k Ug'g]W\']b'a Y\fYfYb'\\b]h]Uh]j Yb'ni f'JYfVYggYfi b[
XYf'GhfU\()\Yb]b\ZfUghfi \_hi f'i bX'XYf'5i Z\_`\Afi b['XYf

JYf\_Y\fghY]`bY\\\a Yf'\k]XYfgd]Y[Y`\h''Dfc[fUa a Y'ni f
; YgW\\\k]bX][\_Y]hgYfZUggi b['i bX'fY[Y`\a \A\\angle\][Y'JYf\_Y\fg\_cbhfc``Yb
n]Y`Yb'XUfUi Z'UV\Z'X]Y'I b\ZU``\nU\`Yb'ni 'fYXi n]YfYb'i bX'g]W\YfYfY
GhfU\()\Ybj\Yf\\A`\hb]ggY'\ni 'gW\UZ\Yb''\8]Y'\6\%'\k]fX'XUVY]'\c\Zh'U\g
F]g]\_cghfYW\_Y']XYb\n]Z]n]Yf\\Z'\bgVYgcbXYfY']a '\6\YfY]W\'j cb
GW\\\k\Ufn\VU\\\"

## 6YXYi hi b[ 'XYf'FYhhi b[ gX]YbghY'i bX'XYf : Yi Yfk Y\f

 $8 ]Y `FYU\_h]cb `XYf `FYhhi b[gX]YbghY `i bX `XYf `: Yi Yfk Y\f']a ~: U``YY Y]b Yg `I b ZU``gž k ]Y `VY] `XYa ~J cfZU```]b `6UX `FY]W XYb \U``ž `]gh YbhgW XY]XYb Xž i a ~X]Y `J Yf `YhmhYb `gW bY``gha <math>O[`]W$  `ni ~j Yfgcf[Yb" 8 Ug `6UmYf]gW Y `FchY `? fYi n `i b X `X]Y `: fY]k ]``][Y :: Yi Yfk Y\f `nY][Yb]b `X]YgYa ~: U``ž k ]Y `k ]W h][ ~Y]b Y [ i h `cf[Ub]g]YfhY `BchZU``j cfgcf[Y]gh"; Ya À» `XYf `K YVgY]hY `XYg `6UmYf]gW Yb `FchYb `? fYi n Yg `g]b X X]Y `FYhhi b[gX]YbghY `]b `6UmYfb `]a ~J\f `&\$&' `ØVYf `- \$"\$\$\$ `A U`Ui g[YfØW\_hž i a ~J Yf `YhnhYb `ni ~Y`ZYb `i b X `I b ZÀ``Y `UVni g]W Yfb "

 $8 ] YgY `NU `Yb'j YfXYi h`] WXYb'X] Y `\c\Y'9] bgUhnVYfY] hgWX UZh'i bX'X] Ya U `\g VY`] WXY'F c``Y'X] YgYf'C f[Ub]gUh] cbYb'] a 'GhfU `\g Ybj Yf_Y\f''$ 

9gʻ]ghʻVYa Yf\_Ybgk YfhžʻXUggʻX]YʻNi gUa a YbUfVY]hʻnk ]gWk YbʻXYb j YfgWk]YXYbYbʻF Yhhi b[gcf[Ub]gUh]cbYbʻi bXʻXYfʻDc`]nY]ʻ]b gc`Wk YbʻG]hi Uh]cbYbʻfY]Vi b[g`cgʻZi b\_h]cb]Yfh"ʻ\daviX]YgYa i: U`` k i fXYʻU`Ufa ]YfhžʻU`gʻXUgʻUi hca Uh]gWk YʻBchfi ZlGmghYa iXYg : U\fnYi [gʻUbgWk`i [ž'k UgʻnY][hž'k]Yʻa cXYfbYʻHYWkbc`c[]YbʻUi WklbʻBchg]hi Uh]cbYbʻj cbʻ[fc»Yfʻ6YXYi hi b[ˈgY]bʻ\_ObbYb"ʻGc`Wk Y GmghYa YʻV]YhYbʻY]bYbʻYbhgWkY]XYbXYbʻJcfhY]ʻžʻ]bXYa ˈg]YgWkbY``YfY'<]`ZYʻYfa O[`]WkYbʻi bXʻX]YʻFYhhi b[gX]YbghYn]Y`[Yf]WkhYhYfʻ]bZcfa ]YfYb"

8 Y hU]`q

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