

I a k Y`hU`Ufa ']b 'H\Øf]b[Yb.'; Ø``Y!I bZU`` ZØ\fh'ni ':]gW\ghYfVYb ']b '6UmYfb

GW.k YfY'l a k Y`h_UhUghfcd\Y']b'H\Øf]b[Yb.'5i g 6]c[UgUb`U[Y'Z]Y»Yb'%) \$ 'a ^'; Ø``Y'Ui gž'5i gk]f_i b[Yb'V]g bUW.'6UmYfbž'HcXYgZÀ``Y'VY]':]gW.Yb"

9]b 'gWk k YfYf'J cfZU```]b 'H\Øf]b[Yb 'gcf[h'XYfnY]h'ZØf
5`Ufa VYfY]hgWk UZh'k Y]h'ØVYf'X]Y'; fYbnYb 'XYg'6i bXYg`UbXYg
\]bUi g"'5a ': fY]hU[bUWka]hhU[ž'XYb'- "'5i [i ghž'YfY][bYhY'g]Wk']b
Y]bYf'6]c[UgUb`U[Y']b'G]a a Yfg\Ui gYbž']a '@UbX_fY]g
<]`XVi f[\Ui gYbž'Y]b'I bZU``ž'XYf'XfUa Uh]gWkY': c`[Yb'bUWk'g]Wk
nc["'9]bY'GhÒfi b['ZØ\fhY'XUni ž'XUgg'Y]bY'[fc»Y'A Yb[Y'; Ø``Y'Ui g
XYf'5b`U[Y']b'X]Y'I a k Y`h'[Y`Ub[hYž'k Ug'dfca dh'ni 'Y]bYa
:]gWk ghYfVYb']b'6UmYfb'ZØ\fhY"

6Y]'XYa 'JcfZU``k i fXY'[YgW\Ahnhž'XUgg'V]g'ni '%) \$'?i V]_a YhYf ; Ø``Y']b'X]Y'bU\Y'[Y`Y[YbY'A]`n'Ui g[Y`Ui ZYb'g]bX"'8Ug'[YbUi Y 5i ga U» 'XYg'GW\UXYbg'k Uf'UbZUb[g'i b_`Ufž'YXcW\'a UW\hY'g]W\XUg'DfcV`Ya 'gW\bY```VYa Yf_VUf"'6YfY]hg'&) '?]`ca YhYf'YbhZYfbhž]a 'VUmYf]gW\Yb'5i VghUXhž'YbhXYW_hYb'5bk c\bYf'a Y\fYfY'hchY :]gW\Y'Ub'Y]bYf'A Ø\`Y'"8]YgY'U`Ufa]YfYbXYb': i bXY'ZØ\fhYb'ni gcZcfh][Yb'9fa]hh`i b[Yb'Xi fW\'X]Y'K UggYfVY\ÒfXYb'i bX'X]Y Dc`]nY]ž'X]Y'X]Y'Gdi f'XYf'J Yfi bfY]b][i b['V]g'ni f'6]c[UgUb`U[Y']b H\Øf]b[Yb'ni fØW_j YfZc`[Yb'_cbbhYb"

I a ZUb[fY]WXY'9fa]hh`i b[Yb'i bX GcZcfha U» bU\a Yb

 $8]Y \cdot 5bnY]WX Yb \cdot Y]bYg \cdot a Ugg]j Yb \cdot I a k Y \cdot hgWX UXYbg \cdot k UfYb \cdot b]WX h \cdot ni \\ \emptyset VYfgY \setminus Yb '' \cdot J \cdot cf \cdot Cfh \cdot]b \cdot G]a a Yfg \setminus Ui gYb \cdot VYghAh][hYb \cdot X]Y \\ I bhYfgi WX i b[Yb \cdot X]Y \cdot [YZØfWX hYhYb \cdot JYfXUWX hga ca YbhY \cdot 8]Y$

6]c[UgUb`U[Y'\UhhY'a Ugg]j Y'A Yb[Yb'Ub'; Ø``Y'ZfY][YgYhnhž'X]Y']b XYb': `i gg'[Y`Ub[h'k UfYb"'8]Y'9fa]hh`i b[Yb'nY][Ybž'XUgg'XYf JcfZU``'b]W\h'bi f'H\Øf]b[Yb'VYhf]ZZhž'gcbXYfb'Ui W\'Yf\YV`]W\Y 5i gk]f_i b[Yb'Ui Z'X]Y'VUmYf]gW\Y'BUhi f'\Uh"'JYfUbhk cfh`]W\Y'j cb : Yi Yfk Y\f'i bX'@UbXfUhgUa h'j cb'F Òa \]`X'k UfYb'gcZcfh']a 9]bgUhnži a 'X]Y'G]hi Uh]cb'ni '_cbhfc``]YfYbž'i bhYfghØhnh'j ca 6YhfY]VYf'XYf'6]c[UgUb`U[Y"

8]Y'fUgWXY'FYU_h]cb'XYf'6Y\ÒfXYb'k Uf'YbhgWXY]XYbX"'I a 'Y]bY k Y]hYfY'5i gVfY]hi b['XYf'; Ø``Y'ni 'j Yf\]bXYfbž'Yff]WXhYhYb: UWX_fÀZhY'Y]bYb'8 Ua a ž'XYf'XUg'5VZ]Y» Yb']b'UbXYfY: `i ggUVgWXb]hhY'Ui Z\U`hYb'gc``hY"'I bhYfghØhnh'j cb'Y]bYa '6U[[YfUfVY]hYhYb'X]Y'9]bgUhn_fÀZhY'V]g']b'X]Y'gdÀhYb'5VYbXghi bXYbž'i a X]Y'; Ø``Y'Y]bni XÀa a Yb"'Hfchn'XYf'[fc»Yb'5bghfYb[i b[YbV`]YVYb'X]Y'[YbUi Yb'?cbgYei YbnYb'V]g': fY]hU[UVYbX'i b_`Ufž'XUX]Y'A Yqqi b[Yb'a]h'<cWXXfi W_'Xi fWX[YZØ\fh'k i fXYb"

; fØbXY'i bX'6YXYi hi b['XYg'JcfZU``g

K Ufi a 'k UfiX]YgYf'JcfZU```gc'[fUj]YfYbX3'6]c[UgUb`U[Yb'gd]Y`YbY]bY'k]Wkh][Y'Fc``Y']a '6YfY]Wk'XYf'YfbYi YfVUfYb'9bYf[]Ybž'XcWk X]Y'F]g]_Ybž'X]Y'g]Y'a]h'g]Wk'Vf]b[Ybž'g]bX'b]Wkh'ni 'i bhYfgWkÀhnYb"9]b'I bZU``'X]YgYf'5fh'k]fZh': fU[Yb'ni f'G]WkYf\Y]h'i bX'XYbI a k Y`hgWki hna U» bU\a Yb'Ui Z''8]Y'JcfZÀ``Y'ZØ\fYb'b]Wkh'bi f'ni Y]bYa 'i ba]hhY`VUfYb'I a k Y`hgWkUXYbž'gcbXYfb'\UVYb'Ui Wk`Ub[Zf]gh][Y'5i gk]f_i b[Yb'Ui Z'X]Y'K UggYfei U`]hÀh'i bX'X]YH]Yfk Y`h']b'XYf'FY[]cb"

Ni XYa ']gh'X]Yg'b]W\h'XYf'YfghY'J cfZU```X]YgYf'5fh']b'8Yi hgW\`UbX" \Rightarrow a Yf'k]YXYf'[]Vh'Yg'6Yf]W\hY'ØVYf'I bZ\\^`Y']b'6]c[UgUb`U[Yb \check{z} X]Y X]Y'2 ZZYbh`]W_Y]h'U`Ufa]YfYb"'8]Y'8]g_i gg]cb'ØVYf'X]Y'?cbhfc``Yi bX', VYfk UW\ib['j cb'gc\W\Yb'5b\U[Yb'k]fX'Xi fW\'9fY][b]ggYk]Y'X]YgYg'bYi 'YbhZUW\h"'8]Y'6Yn]Y\ib['nk]gW\Yb'a cXYfbYb9bYf[]Yei Y``Yb'i bX'I a k Y`hgW\ihn'V`Y]Vh'Y]b'nYbhfU`Yf'Di b_h']a XYi hgW\Yb'8]g_i fg"

 $8]Y `6Y \land Of XYb `ib X `X]Y `VYhfc ZZYbYb `; Ya Y]b XYb `g]b X `bib `]b `Y]b Yf \\ _f]h]g W \land Yb `D \land Ug Y \check{z} \]b `XYf `g]Y `X]Y ``Ub [Zf]gh][Yb `: c `[Yb `XYg `J c f ZU ``g$

VYk YfhYb i bX A U» bU\a Yb ni f K]YXYf\YfghY``i b['XYf VYhfc ZZYbYb I a k Y`h'Yf[fY]ZYb a ØggYb"'9g']gh i bUVX]b[VUfž'XUgg @Y\fYb 'Ui g'X]YgYa 'J cfZU```[Ync[Yb 'k YfXYbž'i a 'À\b`]W\Y? UhUghfcd\Yb']b 'XYf'Ni _i bZh'ni 'j Yf\]bXYfb i bX'g]W\Yfni ghY``Ybž XUgg'X]Y 'YfbYi YfVUfYb'9bYf[]Yb'j YfUbhk cfhi b[gj c```VYhf]YVYb k YfXYb"

9]b 6`]W_]b X]Y Ni _i b Zh

8 UgʻA UbU[Ya Ybh'j cbʻ6]c[UgUb`U[Ybʻk]fX`Y]bYʻnYbhfU`YʻFc``Ygd]YʻYbži a ʻg]W\Yfni ghY``Ybž'XUggʻgc`W\YʻJcfZÀ``Yʻb]W\h'k]YXYf j cf_ca a Yb"ʻ8]Yʻni ghAbX][Ybʻ6Y\ÒfXYbʻghY\Ybʻj cf`XYf <YfUi gZcfXYfi b[ž'X]YʻG]W\Yf\Y]hʻni ʻYf\Ò\Ybʻi bX`[`Y]W\nY]h][ʻX]Y JcfhY]YʻXYfʻYfbYi YfVUfYbʻ9bYf[]Ybʻni ʻbi hnYb"ʻK]Yʻk]fXʻg]W\X]Y² ZZYbh`]W_Y]hʻUi ZʻX]YgYʻJcfZÀ``YʻY]bghY``Yb3ʻ9]bYgʻghY\hʻZYgh ʻ8 Ug 6Yk i gghgY]bʻZØfʻX]YʻI a k Y`hUi gk]f_i b[Ybʻk]fX`k UW\gYbžʻi bXʻYg k]fX`8 fi W_ʻUi Zʻ6YhfY]VYfʻi bXʻFY[i `]Yfi b[gVY\ÒfXYbʻUi g[YØVhž i a ˈJYfVYggYfi b[Ybʻni ʻ]a d`Ya Ybh]YfYb"ʻ9]bYʻ]bhYbg]j Y , VYfdfØZi b['i bX'bÒh][Yʻ5bdUggi b[Ybʻg]bX`[YZcfXYfhži a ʻXYb <YfUi gZcfXYfi b[Ybž'X]YʻX]Yʻa cXYfbYʻ9bYf[]Y[Yk]bbi b[ʻa]hʻg]W\Vf]b[hž́[YfYW\h'ni kYfXYb"

8]Y'G]hi Uh]cb']b'G]a a Yfg\Ui gYb'\Uh'Y]bY'VfY]hY'8]g_i gg]cb'ØVYf X]Y'G]WXYf\Y]h'j cb'6]c[UgUb`U[Yb'i bX'X]Y'YbhgdfYWXYbXYb I a k Y`hUi ZU[Yb'Ui g[Y`Ògh"'Gc`WXY'5b`U[Yb'g]bX']b'8Yi hgWX`UbX k Y]h'j YfVfY]hYhž'XU'g]Y'Y]bY'k]WXh][Y'Fc``Y']b'XYf'9bYf[]Yk YbXY i bX'XYf'bUWX\U`h][Yb'@UbXk]fhgWXUZh'gd]Y`Yb"'\XXcWX'g]bX'X]Y a Ò[`]WXYb'I a k Y`hUi gk]f_i b[Yb'j cb'I bZÀ``Yb'i bX'GhÒfZÀ``Yb Yf\YV`]WX'i bX'_ObbYb'gWXk YfY': c`[Yb'ZØf'X]Y'I a [YVi b['\UVYb" 9g']ghYbhgWXY]XYbXž'XUgg'fY[Y`a À»][Y'\dgYyh]cbYb'i bX GlYYb'i a 'gc`WXY J cfZÀ``Y'ni 'j Yfa Y]XYb"

5i » YfXYa 'ghY\h'X]Y '8 YVUhhY 'ØVYf'X]Y '5i gk]f_i b[Yb 'XYg'J cfZU``g Ui Z'X]Y '`c_U`Y': `cfU'i bX': Ui bU']a 'J cfXYf[fi bX"'6]c[UgUb`U[Yb bi hnYb 'cf[Ub]gWX Y '5 VZÀ``Y'ni f'9bYf[]Y[Yk]bbi b[ž'k Ug'df]bn]d]Y`` i a k Y`hZfYi bX`]WX ']gh"'8 Yf'I bZU```nY][h'YXcWX 'X]Y '? Y\fgY]hY 'XYf A YXU]``Yž'k Ybb 'Yg'ni '[fÒ» YfYb '5i gZ ØggYb'j cb 'GWX UXghc ZZYb

_ca a h"'8Yf': `i gg'A]`n']gh'bi b'a]h'; Ø``Y'VY`UghYhž'k Ug'XUg

² _cgmghYa 'Yf\YV`]W\'VYY]bhfÀW\h][Yb'_ObbhY"'9I dYfhYb'k Y]gYb

XUfUi Z'\]bž'XUgg'Y]bY'XYfUfh][Y'JYfi bfY]b][i b['b]W\h'bi f'XUg
i ba]hhY`VUfY'K UggYf`YVYk YgYb'VYhf]ZZhž'gcbXYfb'Ui W\
`Ub[Zf]gh][Y'5i gk]f_i b[Yb'Ui Z'X]Y'K UggYfei U`]hÀh'i bX'XUg
[YgUa hY'² _cgmghYa `\UVYb'_ObbhY"

2 _c`c[]gWXY'i bX'k]fhgWXUZh`]WXY 5i gk]f_i b[Yb

8]Y 'Ò_c`c[]gWXYb'GWXÀXYb'Xi fWX'XYb'; Ø``YUi g`Ui Z'g]bX'[YfUXY']bYa' gYbg]V`Yb'2_cgmghYa'k]Y'XYa'XYf'A]`n'[Yg]WXYfh''6]c`c[Yb'VYhcbYbž'XUgg'Y]b'a Ugg]j Yg':]gWXghYfVYb'b]WXh'bi f'X]Y6]cX]j Yfg]hÀh'Ub[fY]Zhž'gcbXYfb'Ui WX'X]Y'`c_U`Yb':]gWXYf'i bX'X]Y K]fhgWXUZh'XYf'FY[]cb'VYhf]ZZh'':]gWXYfY]']gh'ZØf'j]Y`Y'; Ya Y]bXYb]b'H\Øf]b[Yb'i bX'6UmYfb'Y]bY'k]WXh][Y'9]b_ca a Ybgei Y``Yž'i bXXYf'JYf'i gh'j cb':]gWXYb'_ObbhY'Yf\YV`]WXY'k]fhgWXUZh`]WXY

K]Y'j cb'XYf'6i bXYgUbghU`h'ZØf'; Yk ÀggYf_i bXY'f6Z; Ł'ZYgh[YghY``hžg]bX'X]Y': c`[Yb'Y]bYg'gc`W\Yb'J cfZU``g'cZha U`g'`Ub[k]Yf]["
: U_hcfYb'k]Y'BÀ\fghcZZØVYfgW\i gg'Ui g'; Ø``Y'_ÒbbYb'Ui W\'XUg
5`[Ybk UW\ghi a 'ZÒfXYfbž'k Ug'ni 'Y]bYf'k Y]hYfYb'GW\ÀX][i b['XYg
K UggYf`YVYbg'ZØ\fYb'_Ubb"'8]Yg'_Ubb'X]Y'FY_i `h]j]Yfi b['i bX
K]YXYfUbg]YX`i b['j cb':]gW\Yb'i bX'UbXYfYb'K UggYf`YVYk YgYb
Yf\YV`]W\'YfgW\k YfYb'i bX'\\J\fnY\bhY'XUi Yfb"'

A U» bU\a Yb i bX DfÀj Ybh]cb

 \pm 0\U`hY`k]Y`; Ø``Y`g]W\YfYf`ni ``U[Yfb`i bX`XUg`F]g]_c`j cb \VYf`\\ Ai ZYb`ni `j Yff]b[Yfb"

8]YgY'U_hi Y``Yb'9fY][b]ggY'j YfXYi h`]W\Yb'X]Y'Bchk YbX][_Y]hž'XYb: c_i g'Ui Z'I a k Y`hgW\i hn'i bX'bUW\\U`h][Y'DfU_h]_Yb'ni '`Yb_Ybži a 'gck c\``X]Y'a YbgW\`]W\Y'; Ygi bX\Y]h'U`g'Ui W\'X]Y'bUhØf`]W\Yb@YVYbgfÀi a Y'ni 'gW\ØhnYb"'JYfUbhk cfhi b[gVYk i gghYg'<UbXY`b]b'XYf'6fUbW\Y']gh'i bYf`Àgg`]W\ži a '_ØbZh][Y'?f]gYb'ni 'j Yfa Y]XYb i bX'X]Y'² ZZYbh`]W_Y]h']b'X]Y'8]g_i gg]cb'Y]bni VYn]Y\Yb"

8 Y hU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z 'b!U["XY