

: Ua]`]YbbUW\ni ['i bX'Hi fVc! 9]bVØf[Yfi b[. '6i bXYgfY[]Yfi b['d`Ubh J YfgW\ ÀfZi b[Yb°

8]Y'6i bXYgfY[]Yfi b['d`Ubh'Ua '&, "\$) "&\$&) '; YgYhnYbhk ØfZY ni f'J YfgWkÀfZ b['XYf'A][fUh]cbgdc`]h]_ž']b_`i g]j Y : Ua]`]YbbUWkni ['i bX'9]bVØf[Yfi b["



 $= \frac{1}{2} \left(\frac{1}{2} \right) + \frac$

?f]h]_'i bX'6YXYb_Yb

8]Y'9bhgWXY]Xi b[žXYb: Ua]`]YbbUWXni ['Ui gni gYhnYbž'ghÒ» h gck c\`'Ui Z'?f]h]_'Ui g'XYf'Cddcg]h]cb'U`g'Ui WX'j cb

A YbgWXYbfYWXhgcf[Ub]gUh]cbYb'i bX'?]fWXYb"'A UfWY`'9a a Yf]WX
j cb'XYb'; fØbYb'VYnY]WXbYh'X]Y'A U» bU\a Yb'U`g'5i gXfi W_
ZY\`YbXYf'BÀWXghYb`]YVY'i bX'Uf[i a Ybh]Yfhž'XUgg': Ua]`]Yb'Y]bY
nYbhfU'Y'GhØhnY'ZØf': `ØWXh`]b[Y'XUfghY``Ybž'XYfYb'HfYbbi b[
]bhY[fUh]cbgdc`]h]gWX'gWXÀX`]WX'gY]"'; Ò_Um'GcZl c[`i ž'XYf
J cfg]hnYbXY'XYf'HØf_]gWXYb'; Ya Y]bXY']b'8Yi hgWX`UbXž'Ài »Yfhž
XUgg'hfchn'XYf'FØW_bU\a Y'XYf'Hi fVc!9]bVØf[Yfi b['_Y]bY
[fUj]YfYbXYb'?cbgYei YbnYb'ni 'Yfk UfhYb'g]bXž'ZcfXYfh'YXcWX
a Y\f'DYfgcbU``]b'XYb'ni ghÀbX][Yb'6Y\ÒfXYbži a 'X]Y
6YUfVY]hi b[qnY]hYb'XYf'9]bVØf[Yfi b[qUbhfÀ[Y'ni 'j Yf_ØfnYb"

 $8]Y @]b_gZfU_h]cb `\ Uh'X]Y `[Yd`UbhY `5i ggYhni b[`XYg : Ua]`]YbbUW\ ni [g`U`g`]b\ i a Ub`i bX`Ui g[fYbnYbX'j Yfi fhY]`h"`7`UfU 6Øb[Yf`_f]h]g]Yfh`X]Y `VYfY]hg`j cf\ UbXYbYb``Ub[Yb`K UfhYnY]hYb i bX`g]Y\ h`]b`XYf`J Yf`\Ab[Yfi b[`XYf`5i ggYhni b[`Y]bYb`J Yfghc \) [Y[Yb`X]Y `9i fcd\A]gW\ Y`A YbgW\ YbfYW\ hg_cbj Ybh]cb"`Ni XYa `\ Uh X]Y`I B < 7F!J YfhfYhYf]b`? Uh\ Uf]bU`H\ chY`Ui Z`X]Y`YbhgW\ Y]XYbXY 6YXYi hi b[`XYf`: Ua]`]Ybni gUa a YbZØ\ fi b[`ZØf`X]Y`\DhY[fUh]cb \]b[Yk]YgYb`i bX`Ya dZ]Y\`hž`5i gbU\\a Yb`ZØf` < \AfhYZ\A``Y Y]bni ZØ\ fYb"$

; YgY``gWX UZh`]WX Yf'?cbhYl h'i bX

< YfUi gZcfXYfi b[Yb

Ni a 'XYa c[fUZ]gWXYb'?cbhYl h']gh'ni 'Yfk À\bYbž'XUgg'8Yi hgWX`UbX Ui Z[fi bX'XYg': UWX_fÀZhYa Ub[Y`g'Â\f`]WX 'Yhk U'(\$\$"\$\$\$ ni gÀhn`]WXY'5fVY]hg_fÀZhY'VYbÔh][h"'8]Y'6i bXYgfY[]Yfi b['\Uh XU\Yf'Ui WX'Y]b': UWX_fÀZhYY]bk UbXYfi b[g[YgYhn']bg'@YVYb [Yfi ZYbž'i a 'X]Y'Ni k UbXYfi b['j cb': UWX_fÀZhYb'Ui g'B]WXh!9l! GhUUhYb'ni 'Yf`Y]WXhYfb"'8YbbcWX'V`Y]Vh'X]Y'<YfUi gZcfXYfi b[\check{z} 'X]Y 6YX \emptyset fZb]ggY'XYf': ` \emptyset WXh`]b[Y'i bX'XYf'\]Yg][Yb'6Yj Ò`_Yfi b[Ui g[Yk c[Yb'ni 'VYf \emptyset W_q]WXh][Yb"

8]Y'_ca a YbXYb'9bhgW\Y]Xi b[Yb'XYg'6i bXYghU[Yg'_ÒbbhYbgca]h'k Y]hfY]W\YbXY'5i gk]f_i b[Yb'Ui Z'X]Y'\DhY[fUh]cbgdc`]h]_i bX'X]Y'[YgY``gW\UZh`]W\Y'Gh]a a i b[']b'8Yi hgW\`UbX'\UVYb"

: Øf`k Y]hYfY`±bZcfa Uh]cbYb`ni `X]YgYa `H\Ya U`_ÒbbYb`G]Y`X]Y 5fh]_Y``Ui Z'K Y`hž'HU[YggW\Ui `i bX`GhUh]ghU``YgYb"

8 Y hU]`g	
JcfZU``	; YgYhn[YVib[
I fgUWX Y	? f]h]_
Cfh	8 Ying W.`Ub X
EiY``Yb	• k k k "k Y`h"XY
	• k k k "hU[YggW\Ui"XY
	XY "ghUh]ghU"Wc a

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