

H]YfXfUa U`]b`FcgYb\Y]a. 6Ui YfbdfÀg]XYbh`ZcfXYfh`a Y\f 5W\hgUa _Y]h°

; ØbhYf: Y`» bYf'h\Ya Uh]g]Yfh']b'FcgYb\Y]a h]Yfkc\`[YZÀ\fXYbXY'A]ggghÀbXY']b'; f]YgghÀhh'i bX'6UX 5]V`]b['i bX'ZcfXYfh'a Y\f'I bhYfghØhni b['ZØf'@UbXk]fhY"



; f]YgghÀhhž'8Yi hgWX`UbX`!'\D'Y]bYa 'U`Ufa]YfYbXYb'6Yf]WXh'\Uh; ØbhYf': Y`» bYfž'DfÀg]XYbhXYg'6UmYf]gWXYb'6Ui Yfbj YfVUbXg fb6J Łž'ØVYf'U_hi Y``Y': À``Y'j cb'H]Yfk c\`[YZÀ\fXi b[']b'; f]YgghÀhh i bX'6UX'5]V`]b[']bZcfa]Yfh"@Ui h'fcgYb\Y]a &("XY'k i fXYb'9bXY A Àfn'Ui Z'Y]bYa '<cZ']b'; f]YgghÀhh'nU\`fY]WXY'hchY'F]bXYf'i bX GWXUZY'YbhXYW_h"Bi f'nk Y]'K cWXYb'gdÀhYf'ZUbX'a Ub']b'6UX 5]V`]b['YfbYi h'a Y\fYfY'hchY'F]bXYf"'8]Y'6Y\ÒfXYb'k i fXYb'Xi fWX Y]bYb'Ubcbma Yb'<]bk Y]g'Ui Z'X]YgY'[fUj]YfYbXYb'A]ggghÀbXY Ui Za Yf_gUa ž'i bX'X]Y'GhUUhgUbk U`hgWXUZh'HfUi bghY]b'\Uh'X]Y 9fa]hhìi b[Yb'Y]b[Y`Y]hYh"

: Y`» bYf'gW\]`XYfh'X]YgY'JcfZ\A``Y'U`g'5i gXfi W_'Y]bYg'[f\O`» YfYb
a YbgW\`]W\Yb'8fUa Ug"'9f'k Y]gh'XUfUi Z'\]bž'XUgg'gc`W\Y
H]Yfj Yf`i ghY'\Ai Z]['XUg'F Ygi `hUh'dYfg\Ob`]W\Yf'GW\]W_gU`ggW\`A[Y
VY]'@UbXk]fhYb'g]bX"'8Yf'\c\Y'DfY]gXfi W_'gck]Y'bchk YbX][Y
A]``]cbYb]bj Ygh]h]cbYb']b'X]Y'6Yhf]YVY'VY`UghYb'X]Y'ZUa]`]\AfYb
@UbXk]fhgW\UZhYb'ni g\Ahn`]W\"'Hfchn'XYf'gW\k YfYb'Jcfk \ØfZY'VYhcbh
: Y`» bYfz'XUgg'@UbXk]fhY'h]YZYg'\DhYfYggY'Ua 'K c\`Yf[Y\Yb']\fYf
H]YfY'\UVYb"

DgmWkcgcn]U`Y`6Y`Ughi b[Yb`]b`XYf @UbXk]fhgWkUZh

8]Y'dgmW\]gW\Y'; Ygi bX\Y]h'j cb'@UbXk]fhYb'ghY\h'ni bY\a YbX']a
: c_i g"'8UhYb'XYi hYb'XUfUi Z'\]bž'XUgg'5fVY]hgVYX]b[i b[Yb']b'XYf
@UbXk]fhgW\UZh'ni 'dgmW\cgcn]U`Yb'F]g]_Yb'ZØ\fYb'_ObbYb"'
U[fUf\Yi hY"Wca 'VYf]W\hYhž'XUgg'V]g'ni ') \$'i 'XYf'@UbXk]fhY
a Y\f'U`g'(, 'Ghi bXYb'dfc'K cW\Y'UfVY]hYbž'k Ug'ni 'Yf\O\hYa
GhfYggž'5b[ghni ghÀbXYbž'6i fbci h'i bX'gc[Uf'Gi]n]X[YXUb_Yb
ZØ\fYb'_Ubb"'\d\: fUb_fY]W\b]a a h'g]W\'U``Y'nk Y]'HU[Y'Y]b
@UbXk]fh`XUg'@YVYbž'i bX']b'\d\if`UbX'`Y]XYh'YXYf'j]YfhY'@UbXk]fh`Ub
6i fbci h"

 $8]Y \cdot DgmWX]UhYf]b \cdot ? UfYb \cdot < YbXf]I \ \check{z}'X]Y \cdot g]WX \cdot Ui \ Z'8 YdfYgg]cbYb \cdot VY] \\ @UbXk]fhYb \cdot gdYn]U`]g]Yfh` \ Uhž' VYhcbh`X]Y \cdot 8 f]b[`]WX _Y]h`XYf \\ DfcV`Ya Uh]_" \cdot <math>\Rightarrow$ `Y]bYa '; YgdfÀWX \ a]h`hU[\ Yggd]Y[\ Y`"XY \ Yf_`ÀfhY \ g]Yž'XUgg` YXYf`@UbXk]fh`Yhk U`XfY]`UbXYfY`_Ybbhž'X]Y \cdot Gi]n]X \ VY[Ub[Yb`\UVYb" \ 8]YgY`HfU[\ OX]Ybž'gc` < YbXf]I \ ž'g]bX`cZh`5i gXfi \ W_j cb` < cZZbi b[g`cg][_Y]h`i bX`k YfXYb`gY]h`\J\fYb`dc`]h]gWX \ [bcf]Yfh"

⇒b]h]Uh]j Yb`ni f`l bhYfghØhni b[ˈj cb @UbXk]fhYb

♣ `FYU_h]cb`Ui Z`X]Y`VY`UghYbXYb`I a ghÀbXY`\Uh`XYf`66J`XUg
A cbhU[gHY`YZcb ']bg`@YVYb`[Yfi ZYb"`8]YgY`9]bf]W\hi b[ž`X]Y
Ubcbma Yb`i bX`_cghYb`cgYb`; YgdfÀW\gVYXUfZ`ZØf`A YbgW\Yb`]b
`UbXk]fhqW\UZh`]W\Yb`: Ua]`]Yb`V]YhYhž`gc```@UbXk]fhYb`\Y`ZYbž`]\fY

<YfUi gZcfXYfi b[Yb'VYggYf'ni 'VYk À`h][Yb": Y`» bYf'VYhcbhž'XUgg
Y]bY'?ca V]bUh]cb'Ui g'?cbhfc``Yb'i bX'6YfUhi b['g]bbj c```k ÀfYž'i a
X]Y'G]hi Uh]cb'XYf'@UbXk]fhY'ni 'j YfVYggYfb"</pre>

Ni gUa a YbZUggYbX``Àggh'g]WX`gU[Ybž'XUgg`XYf'8fi W_`Ui Z@UbXk]fhY`Ui Z[fi bX`k]fhgWXUZh`]WXYf'i bX`dYfgÒb`]WXYf < YfUi gZcfXYfi b[Yb``Ub[Zf]gh][`X]Y`dgmWX]gWXY`; Ygi bX\Y]h [YZÀ\fXYh"'9]bY`j YfghÀf_hY`[YgY``gWXUZh`]WXY`5WX hgUa _Y]h'i bX I bhYfghØhni b[`]gh'Xf]b[YbX`bchk YbX][ži a `X]YgY`_f]h]gWXY G]hi Uh]cb'ni `YbhgWXÀfZYb'i bX`XUg'H]Yfk c\``gck]Y`X]Y @YVYbgei U`]hÀh'XYf`@UbXk]fhY'ni `g]WXYfb"

8 YhU]`g	
J cfZU``	H]Yfk c\`[YZÀ\fXib[ž¨Gi]n]X
Cfh	; f]YgghÀhhž'8YihgW\`UbX
EiY``Yb	k k k "fcgYb\Y]a &("XY
	• k k k "U[fUf\Yi hY"Wca
	k k k "hU[Yggd]Y[Y`"XY

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