

/ , \$' - /≠W 'gY\Y'Yg'ØVYf\Ui dh'b]W h'U`g
?cb_i ffYbn/ , \$' - /

8Yf'7\]YZ'CdYfUh]b['CZZ]Wf'XYf'6Ub_'cZ'5a Yf]WU'g]Y\h
?fmdhck Å\fi b['b]W h'U`g'?cb_i ffYbn"GhUhhXYggYb
VYhfUW hYh'Yf'Yg'U`g'Y]bY'5b`U[Y_'UggY'i bX'ghY`h'ZYghž'XUgg
X]Y'@Yi hY'Yg'Ui g'U`Yb'a Ø['j]W Yb'; fØbXYb'a Ø[Yb "'7CC
XYf'6Ub_'cZ'5a Yf]WU'ZØf'?fmdhc./ Ua d/ , &&≠W 'gY\Y'Yg
ØVYf\Ui dh'b]W h'U`g'?cb_i ffYbn/ Ua d/ , &&\$/Hca 'A cbhU[ž
7CC'XYf'6Ub_'cZ'5a Yf]WU'ž'gdfUW 'Ua '8cbbYfghU['j]b'Y]bYa
hYfj]Yk 'a]h'7\U]bU`mg]g!79C 'A]W UY`; fcbU[Yf'Ui Z'Y]bYf
?cbZYfYbn'XYg'6`cW_WU]b!5bU`mh]_i bhYfbY\ a Ybg]'b'BYk
Mcf_"'A cbhU['j]gh'Ui »YfXYa 'DfÅg]XYbhj cb'; `cVU'6Ub_]b[
UbX'A Uf_Yhg'XYf'6Ub_'cZ'5a Yf]WU'i bX'A]h['YX'XYf
; YgW ÅZhg`Y]hi b['XYg'l bhYfbY\ a Ybg"'9f`]ghj YfUbhk cfh]W
ZØf'U`Y'; YgW ÅZhYž'X]Y'l bhYfbY\ a Yb'i bX']bgh]hi h]cbY`Yb
/ Ua d^Y`]d/

8Yf'7\]YZ'CdYfUh]b['CZZ]Wf'XYf'6Ub_'cZ'5a Yf]WU'g]Y\h
? fmdhck Å\fi b['b]W\h'U'g'? cb_i ffYbn" GhUhhXYggYb
VYhfUW\hYh'Yf'Yg'U'g'Y]bY'5b'U[Y_'UggY'i bX'ghY'h'ZYghž
XUgg' X]Y'@Yi hY'Yg'Ui g'U''Yb'a Ò['W\Yb'; fØbXYb'a Ò[Yb "

7CC 'XYf'6Ub_'cZ'5a Yf]WU'ZØf'? fmdhc.' ⇒W
gY\Y'Yg'ØVYf\Ui dh'b]W\h'U'g'? cb_i ffYbn

Hca 'A cbhU[ž7CC 'XYf'6Ub_'cZ'5a Yf]WUž'gdfUW'Ua '8cbbYfghU[
]b'Y]bYa '⇒hYfj]Yk 'a]h'7\U]bU'mg]g!79C 'A]W\UY''; fcbU[Yf'Ui Z
Y]bYf'?cbZYfYbn'XYg'6'cW_W\U]b!5bU'mh]_i bhYfbY\ a Ybg]b'BYk
Mcf_"

A cbhU['gh'Ui »YfXYa 'DfÅg]XYbh'j cb'; 'cVU'6Ub_]b['UbX'A Uf_Yhg
XYf'6Ub_'cZ'5a Yf]WU'i bX'A]h['YX'XYf'; YgW\ÅZhg'Y]hi b['XYg
I bhYfbY\ a Ybg''9f']gh'j YfUbhk cfh]W\ZØf'U''Y'; YgW\ÅZhYž'X]Y
I bhYfbY\ a Yb'i bX']bgh]hi h]cbY''Yb'5b'Y[Yfb'X]YbYb"

9f'gU[hYž'X]Y'? fmdhck Å\fi b['Yf]bbYfY']\b'Ub'8Yf]j UhY']b']\fYb
ZfØ\Yb'HU[Yb''9f'[UV'Ui W\ ni žXUgg'Yf'GhUV'YWł]bg]b]W\h
j YfghY\h" ⇒W'j YfghY\Y'XUg'b]W\h'gc' [i h'k]Y'U''Y']a 'FUi a '
GhYW_h'k]f_]W\ 'Y]b'8c''Uf'\]bhYf'GhUV'YWł]b3

8Yf'7CC 'XYf'6Ub_'cZ'5a Yf]WU'k i fXY'Ui W\ '[YZfU[hž'cV'6Ub_Yb
a]h'? fmdhc'_cb_i ff]YfYb''9f'Ubhk cfhYhY.

⇒W'gY\Y'XUg'ØVYf\Ui dh'b]W\h'U'g'? cb_i ffYbn" ⇒W
VYhfUW\hY'Yg'bi f'U'g'Y]bY'k Y]hYfY'5b'U[Y_'UggY' 'i bX'X]Y
@Yi hY'a Ò[Yb'Yg'Ui g'XYb'j YfgW]YXYbghYb'; fØbXYb"

8Yf'J c fghUbX'XYf'6Ub_'cZ'5a Yf]WU'gh'b]W\h'XYf'Y]bn][Yž'XYf
? fmdhc'U'g'5b'U[Y_'UggY'VYhfUW\hYh"? cb_i ff]YfYbXY
⇒j Ygha YbhVUb_'; c`Xa Ub'GUW\g'gU[hY']a 'A U]žXUgg'6]hWł]b'Y]b

]bj Ygh]YfVUfYf'J Yfa Ò[Yb'gk Yfh]'gh" >D'A cf[Ub'gU[hY'a 'ž`ž'XUgg
j]Y`Y`gY]bYf'?i bXYb'?fmdhc'U`g'5b`U[Y`UggY`gY\Ybž']b`X]Y`g]Y
]bj Ygh]YfYb`a ÒW`hYb"

...

5`g'?ca a YbhUf`XUni ž'cV`6]hWc]b`Y]b`K YfhUi ZVYk U\fi b[ga]hhY`
]ghž'gU[hY`A cbhU[. ' ÆW` \UVY` \YfUi g[YZ bXYbž'k]Y`X]Yg`Y]bYb
K Yfh'U`g[`cVU`Yg`K YfhUi ZVYk U\fi b[ga]hhY` \UVYb`_ÒbbhY""9g`]gh
gWk Yf'ni `Yf`YbbYbž'k]Y`k]W`h][`XUg`U`g`5a Yf]_UbYf`]ghž'k Ybb
a Ub`Ub`Y]bY`ghUV]`Y`K À\fi b[`[Yk Ò\bh]'gh"

⇒6Yni [`Ui ZX]Y`9]bZØ\fi b[`Y]bYf`Y][YbYb`X][]hU`Yb
NYbhFU`VUb_k À\fi b[`f7687ŁXi fW`X]Y': YXYfU`F YgYfj Y`a Y]bhY
Yf.`9g`k]fX`i bj Yfa Y]X`]W`gY]bžUVYf`Yg`k]fX`]b`CfXbi b[`gY]b"
I G!BchYbVUb_WXYZ`fca Y`Dck Y`"[YbUbbh]a `GYdhYa VYf.`K]f
UfVY]hYb`dfcU_h]j `XUfUbž'ni `Yj`U'i]YfYbž'cV`i bX`]b`k Y`W`Yf': cfa
Y]b`7687`Ui g[YghY`h`k YfXYb`gc`"

⇒ j Yf[Ub[YbYb`A cbUh`XYVØh]YfhY`X]Y`6Ub`_cZ`5a Yf]WU`a]h]`fYf
?fmdhc!: cfgWk i b[`i bX`ghY`hY`ZYghž'XUgg`X][]hU`Y`J Yfa Ò[Yb'gk YfhY
ni `[fc»`ni a`][bcf]YfYb" `8Ug`Yb[U[]YfhY`?fmdhc!F YgYUfW!
HYUa `XYf`6Ub`_k Uf`[Y[fØbXYh]a `ž`]"

K Ug` \U`hYb`G]Y`j cb`XYb`?ca a YbhUfYb`XYg`7CC`XYf`6Ub`_
cZ`5a Yf]WU3`@UggYb`G]Y`Yg`i bg`]a `?ca a YbhUfVYfY]W`
i bhYb`k]ggYb"

6]`XbUWk Y]gY. `G\i hhYfghcW_ž'D]I UVUmž`K]_]`7ca a cbg

fØ bW]cbfXž'gž']XŁ'o`j Uf`'gž'Z'g`1`X"[Yh9`Ya Ybhg6mHU[BUa YfbŁQ\$Q'
]ZfX"[Yh9`Ya Ybh6m`Xf]XŁŁ`fYhi fb/`g`1`X"WfYUhY9`Ya YbhfbŁ/`g]"X`1
]X/`g"gfW " \hhdg. #WcbbYWh"ZUW`Vcc_"bYh#YbSI G#gX_"`g. I ZVa`1`%/
j Yfg]cb1`j` "'&"/Z'g"dUfYbhbCXY"]bgYfh6YZcfYf'gž'Z'gŁ/qfXcW`a Ybhž
f'gWf]dhfž`fZUW`Vcc_!`g'gX`fŁŁ/

8YhU]`g

6Ygi W\Yb`G]Y`i bg`Ui Z.`_fmdhc!bYk g"Uh