

: @9L `ghY][h'i a `%- 'i ž'bUWXYa `CDBL
9l WU b[Y `bYi Yg; ; cj YfbUbW!Hc_Yb
`YfUi g[]Vh

CDBL ` `X]Y`j cb`Gi `]bg`@YVYb`[Yfi ZYbY`6ÖfgY`ZÖf`? fmdhc!
`bgc`j YbnZcfXYfi b[Yb`N\i `i bX`?mY`8Uj]Yg`UVYb`Ua
A]hkcW`Y]b`K `]hYdUdYf`ZÖf`]\fYb`bYi Yb; ; cj YfbUbW!
Hc_Yb` C L `j YfÖZYbh`]W`h`8YhU]`g`fi bX`i a `X]Y`Wc`]b8]Y
Hc_Ybca]Wg`ZÖ`fhYb`XUni ž`XUgg`XYf`DfY]g`j cb: @9L ` `XYa
VYghY`YbXYb`bUh]j Yb`Hc_Yb`XYf`D`UhhZcfa ` `Ub`X]YgYa `HU[
]b`X]Y`<Ö`Y`gW`cgg`"CDBL ž: @9L `i bX`C L `a `5bgW`i gg`Ub
X]Y`Ui ZXYW_Yb@Ui h`7c]bA Uf_Yh7Ud`k]fX: @9L `ni a
NY]hdi b_h`XYg`GW`fY]VYbg`ZÖf`%ž%(`l G!8c`Uf`[Y`UbXY`hž`Y]b
5bgh]Y[`j cb`%- `i `] [Y[YbØVYf`\$ž- *`i G!8c`Uf`j cf`&(
Ghi bXYb`i bX`\$ž+) `l G!8c`Uf`j cf`Y]bYf`K cW`Y`" `a
; Y[YbgUhn`XUni `] []Vh`7c]b; YW_c`Y]bYb`U_hi Y`Yb`DfY]g`j cb
/ Ua d^Y`d/



CDBL ` `X]Y`j cb`Gi `]bg`@YVYb`[Yfi ZYbY`6ÖfgY`ZÖf`? fmdhc!
`bgc`j YbnZcfXYfi b[Yb`N\i `i bX`?mY`8Uj]Yg`UVYb`Ua `A]hkcW`
Y]b`K `]hYdUdYf`ZÖf`]\fYb`bYi Yb; ; cj YfbUbW!Hc_Yb` C L

j Yf0ZYbh]W.h"

8YhU]g'fi bX'i a 'X]Y'Wc]b8]Y'Hc_Ybca]Wg'Z0\fhYb'XUni ž'XUgg'XYf
DfY]g'j cb': @9L' 'XYa 'VYghY\YbXYb'bUh]j Yb'Hc_Yb'XYf'D'UhhZcfa
'Ub'X]YgYa 'HU['j'b'X]Y'<0\Y'gW.cgg"

CDBL ž': @9L 'i bX'CL

⇒a '5bgW'ì gg'Ub'X]Y'Ui ZXYW_Yb@Ui h'7c]bA Uf_Yh7Ud'k]fX': @9L
ni a 'NY]hdi b_h'XYg'GW.fY]VYbg'Z0f'%ž%('l G!8c''Uf'[Y\UbXY'hž'Y]b
5bgh]Y['j cb'%- 'i ' [Y[Yb0VYf'\$ž- * 'l G!8c''Uf'j cf'&('Ghi bXYb'ì bX
\$ž+) 'l G!8c''Uf'j cf'Y]bYf'K cW.Y"

⇒a ; Y[YbgUhn'XUni ' []Vh'7c]b; YW_c'Y]bYb'U_hi Y''Yb'DfY]g'j cb'bi f
%ž\$- 'l G!8c''Uf'Z0f': @9L 'Ubž'k Ug]ja a Yf'bcW'Y]bYb'hÀ['W]WYb
5bgh]Y['j cb'+ž- 'i 'i bX'Y]b'_UfYg'NY]WYb'Z0f'Y]bY'ghY][YbXY
BUW.ZfU[Y'XUfghY''h"

: @9L'k]fX']a 'J Yf\À'hb]g'%.%\$\$']b'bYi Y'CL!Hc_Yb'ì a [Yk UbXY'h
k YfXYb'_0bbYbž'k Ug'; YV0\fybfUVUhhYž'9]bgUhma 0['W]W_Y]hYb
ì bX'; cj YfbUbW!F YW.hY'Ub'XYf'CL!60fgY'V]YhYh"

K Ybb'g]W': @9L!?'Ài ZYf'U'hYfbUh]j 'XUZ0f'YbhgWY]XYbž'\fyb'CL
ZfY]k]''['Z0f'XfY]'A cbUhY'ni 'gdYffYbž'Yf\U'hYb'g]Y'&) 'i 'a Y\ f
Hc_Yb"

BUW'5b[UVYb'XYf'60fgY'k]fX'CL' [fc»Y'DfcV'Ya Y'a]h
hfUX]h]cbY''Yb'60fgYb!Hc_Yb!A cXY''Yb ''0gYb"

: YghY'F UVUhma cXY''Y'V]YhYb'bi f'5bfY]nY'Z0f'XUg'_i fnZf]gh][Y
<U'hYb'[Y[Yb'; YV0\fyb' 'k À\fybX'\c\Y
A]bXYghj c'ì a Yb#<U'hYVÀbXYf'bi f'Z0f'K U'Y'ni [Àb['W]W'g]bX'ì bX
Y]bY'ghÀbX][Y'5bdUggi b['YfZcfXYfbž'k Ug'ni 'J Yfk]ffi b['Z0\fh ž
Yf'_ÀfhY'XUg'l bhYfbY\ a Yb"

⇒a ; Y[YbgUhn'XUni 'k]fX'CL'Y]b' GhU_Y'Hc'HfUXY': cf
: fYY 'F UVUhma cXY''j Yfk YbXYbž'XUg'Yg'YXYa ž'XYf'CL!Hc_Ybg
gdYffhž'Yfa 0['W]W.hž'ZfY]'Ui ZXYf'D'UhhZcfa 'ni '\UbXY'b"'?cb_fYh

a ØggYb'6Ybi hnYf'ZØf'XYb' [YVØ\fybZfY]Yb' < UbXY''Y]bYb'5bhY]'
XYg' [YgUa hYb'CL!5b [YVchg'gdYffYbž'XYf' [fØ» Yf']gh'U'g']\f
; YgUa hUbhY]'Ua 'CDBL!<UbXY`gj c`i a Yb"

8]Y'6ØfgY'k]fX'a]h'XYa ' < UbXY''a]h'Y]bYa ' j cfØVYf [Y\YbXYb
6cbi g!9]bgUhma i `h]d`]_Uhc f'VY []bbYbž'gcXUgg'6Ybi hnYf'_cghYb'cg
a]h'Y]bYa ' J c`i a Yb'\UbXY'b'_ØbbYbž'XUg'j]Y'' [fØ» Yf']gh'U'g']\fY
fY`Uh]j Y'9]bgUhm [fØ» Y'' -> ZfØ\Yf'G]Y'g]bXž'XYghc'a Y\ f'_ØbbYb'G]Y
j cb'X]YgYa '6cbi g'dfcZ]h]YfYb ž'gWf]YV'XUg'l bhYfbY\ a Yb"

8]Y' _UhUghfc d \ U`Yb'5bZÀb [Y'j c b' CDBL

CDBL'k Uf' [YØZZbYh'i a 'Y]bYb'']ei]XYb'A Uf_h'ZØf
=bgc'j YbnUbgdfØWY'nU\`fY]WYf'? fmdhc!I bhYfbY\ a Yb'ni
gW UZZYbž'X]Y'ja ' -> \f' &\$&&'ni gUa a Yb [YVfcWYb'g]bX''N\i 'i bX
8Uj]Yg'gY`Vgh'ghUbXYb'\]bhYf'XYa 'b]W'h'a Y\ f'YI]gh]YfYbXYb
' fmdhc!< YX [YZcbXg'H\ fYY'5ffck g'7Ud]hU`fl 57Łž'XYf'ja
j Yf [Ub [YbYb'ž b]bUW'XYf'? YfbgW'a Y'nY'j cb'HYffU]a
J cfa cbUh]a d`cX]YfhY''

8]Y'VYghY\YbXYb': @9L!Hc_Ybg'XYf'6ØfgY'g]bX'Y]b', VYfV`Y]VgY`
XYf'ZfØ\YfYb'? fmdhc!6ØfgY'7c]b: @9L'XYg'A]hVY [fØbXYfg'A Uf_
@Ja Vž'X]Y'ja ' j Yf [Ub [YbYb' -> \f'bUW'Y]bYa ' ?fYX]hj YfhfU [
5V\YVi b [Yb'Y]bZfcf'i bX'Y]bY'l a ghfi _hi f]Yfi b [
VYUbfU [hY'F c [Yf'J Yf'' []b ['bUW'GØXYb''

8 Ug'?cbnYdhj cb'? fmdhc!6ØfgYb!Hc_Ybg' [Yf]Yh]ja 'Bcj Ya VYf
k À\fybX'XYg'Ni gUa a YbVfi W'g'XYf'? fmdhc!6ØfgY': HL']b'X]Y
'f]h]_ž'k Ug'hY]'k Y]gY'Ui Z'X]Y'5i ZØgi b [']\fyg'bUh]j Yb': HH!Hc_Ybg
ni fØW_ni ZØ\fyb'k Uf''CDBL'i bhYfghØhnh'XYb': cfXYfi b [g\UbXY''ZØf
: HL "

...

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