

Cbml Wc]b DfY]g \ Yi hY \ K]Y \ cW\ _Ubb L 7B ghY][Yb3

8]Y'_Øfn`]W\Y'DfY]gVYk Y[ib['jcb'L7B']gh'VYa Yf_Ybgk Yfh"

♣D'XYb'`YhnhYb'g]YVYb'HU[Yb']gh'Cbml Wc]b'ia 'a Y\f'U`g'%)\$

I '[Ygh]Y[Yb"'GY]bY'A Uf_h_Ud]hU`]g]Yfib['\Uh'g]W\'a Y\f'U`g'
j YfXcddY`h'ibX'`]Y[h'bib'VY]'Yhk U'+\$\$`A]``]cbYb'I G!8c``Uf"

Cbml Wc]b'fL7BŁ'gcf[h'YfbYih'ZØf'GW\`U[nY]`Yb'bUW\'Y]bYa

YId`cg]j Yb'5bgh]Y[ž'XYf']b'XYb'`YhnhYb'&('GhibXYb'ia'ØVYf

*\$`i / Uad∧Y``]d/

- 8]Y'_Øfn`]W\Y'DfY]gVYk Y[ib['jcb'L7B']gh VYa Yf_Ybgk Yfh"
- ±b 'XYb '`YhnhYb 'g]YVYb 'HU[Yb ']gh'C bml Wc]b'i a 'a Y\f'U`g %) \$ 'ı '[Ygh]Y[Yb"
- $GY]bY'AUf_h_Ud]hU`]g]Yfib[``\Uh'g]W\`aY\f`U`g'jYfXcddY`hibX``]Y[h'bib'VY]'YhkU'+$$`A]``]cbYb'lG!8c``Uf"$

Cbml Wc]b'fL7BE'gcf[h'YfbYi h'ZØf'GW\`U[nY]`Yb'bUW\'Y]bYa Yld`cg]jYb'5bgh]Y[ž'XYf']b'XYb'`YhnhYb'&('Ghi bXYb'i a 'ØVYf'*\$'i [Ygh]Y[Yb']gh"

 $8 \ Yf'5`hWc]b'\ Uh'cZZ]n]Y```X]Y'Hcd'%$$'XYf'?fmdhck Å\ fi b[Yb'bUWX A Uf_h_Ud]hU`]g]Yfi b['YffY]WX hž'k Ug'Ui Z'Y]b'YfbYi hYg' <math>\Rightarrow$ hYfYggY'XYf \Rightarrow j YghcfYb'i bX'ghUf_Y'Vi ``]gWXY'8 mbUa]_'\]bk Y]gh''

8 U'L 7 B'Ub'Ni [_fuZh'[Yk]bbhz'Zfu[Yb'g]W\'j]Y`Y'< ÀbX`Yf. 'K]Y\cW\'_Ubb'Yg'ghY][Yb3

A Ugg]j Y'k ÒW Ybh`]W Y'; Yk]bbY VYZYi Yfb < md Y'i a 'L 7B

 $\pm i XYb i YhnhYb g]YVYb HU[Yb i]gh'Cbml Wc]b i a 'a Y\f'U g'%) $i \\ [Ygh]Y[Yb ž'k cVY]'XYf'; fc **hY]' X]YgYf'; Yk]bbY i]b XYb i YhnhYb (, Ghi b XYb Yfn]Y h'k i fXY''$



L7B DfY]gX]U[fUa a jcb.7c]bA Uf_Yh7Ud

8]YgYgʻfUgUbhYʻK UWXghi a ʻgd]Y[Y`hʻY]bYbʻ[fi bX`Y[YbXYbGh]a a i b[gk YWXgY``k]XYfž']bgVYgcbXYfYʻbUWXXYa ʻXYfʻY\Ya U`][YDfÀg]XYbh'8cbU`XʻHfi a dʻY]bYʻj cfØVYf[Y\YbXYʻDUi gYʻVY]ʻNÒ``YbZØfʻX]Yʻa Y]ghYbʻ@ÀbXYfʻUb[Y_ØbX][h'\Uhžʻk UgʻX]YʻVfY]hYfYk]fhgWXUZh`]WXYʻI bq]WXYf\Y]hij Yff]b[Yfh"

6Ya Yf_Ybgk Yfh']ghz'XUgg'XUg'<UbXY`gj c`i a Yb'j cb'L 7B Yl d`cX]Yfh']gh"'8Ug'hÀ[`]WXY'J c`i a Yb'\Uh'g]WX']b'bi f'XfY]'HU[Yb j YfXfY]ZUWX hz'k Ug'Y]bYb'5bgh]Y['j cb'&\$\$'i 'XUfghY``h"

±b 'XYf'j Yf[Ub[YbYb 'K cW\Y']gh'X]Y '< UbXY`gU_h]j]hÀh'i a VYY]bXfi W_YbXY '%"&\$\$`ı '[Ygh]Y[Ybž'k cXi fW\'Cbml Wc]b ']b '6Yni [Ui Z'XUg' < UbXY`g]bhYfYggY'j cf'[fÒ» YfY'BUa Yb'k]Y'5j U`UbW\Y fbJ5LŁ'[YfØW_h']gh"

8]YgYf'XfUa Uh]gW\Y'5bgh]Y['XYg'Jc\i a Ybg'k]fX'cZh'U\g'k]W\h][Yf \(\pm X]_Uhcf'Z\)0f'ghUf_Y'A Uf_hi bhYfgh\(\Omega\)hi b['Ub[YgY\Yb"

L 7B 'DfY]gdfc[bcgY. 'K Ug'_ca a h'U`g B À W ghYg3

5b[Yg]Wkhg'gY]bYg'U_hi Y``Yb'A ca Ybhi a '[`Ui VYb'5bU`mghYbž'XUgg L7B'\Ò\YfY'K]XYfghUbXgb]j YUi g'hYghYb'_ÒbbhYž'k Ybb'X]Y Vi ``]gWkYb'6YX]b[i b[Yb'Ub\U`hYb"

5b[Yg]Wkhg`gY]bYg`U_hi Y``Yb`A ca Ybhi a `[`Ui VYb`5bU`mghYbž`XUgg L7B`j Yfgi WkYb`_ÒbbhYž`\Ò\YfY`K]XYfghUbXgVYfY]WkY`YfbYi h`ni hYghYb"

Gc``hY`YXcW\; Yk]bba]hbU\aYb`Y]bgYhnYbž'_ÒbbhY`Y]bY`[YgibXY?cffY_hif'XYb`DfY]g'k]YXYf`]b`XYb`6YfY]W\`XYf'k]W\h][YbIbhYfghØhnib['jcb`YhkU`\$ž\$%, 'V]g`\$ž\$&\$`IG!8c``Uf`Vf]b[Yb"

5i ZY]bYf``Àb[YfYb`NY]hg_U`Už'k Ybb`Cbml Wc]b`gY]b`U_h]j Yg
<UbXY`gj c`i a Yb`i bX`X]Y`dcg]h]j Y`A Uf_hgYbh]a Ybh`Ui ZfYW\hYf\À`hž []Vh`Yg`DchYbn]U``ZØf`XUg`Hc_Ybž`ZfØ\YfY`<ÒW\ghghÀbXY`j cf`XYf
VfY]hYfYb`Jc`Uh]`]hÀh`XYg`?fmdhck À\fi b[ga Uf_hYg`YfbYi h`ni YffY]W\Yb"

<AbX`Yf`gc``hYb`'YXcW\'X]Y`DfY]gYbhk]W_`i b[Yb'j cb'6]hWc]b`f6H7Ł
i bX'9h\YfYi a `f9H<Ł'[YbUi ']a '5i [Y'VY\U`hYbž'XU'X]Y'@Y]ghi b[
j cb'L 7B 'Ya dZ]bX`]W\'Ui Z'6Yk Y[i b[Yb']b'[fc»Yb
JYfa Ò[Ybqk YfhYb'fYU[]YfYb'_ÒbbhY"</pre>

A]hJcfg]Wkh]bj Ygh]YfYb

K À\fYbX'XYf''Øb[ghY'5bgh]Y['Ui ZfY[YbX']ghž']gh'Yg'k]Wkh][ž'g]Wk XUfUb'ni 'Yf]bbYfbž'XUgg'±bj Ygh]h]cbYb']b'?fmdhck À\fi b[Yb Yf\YV`]WkY'F]q]_Yb'a]h'q]Wk'Vf]b[Yb"

 $8] Y `DfY] g Y `_ \grave{O}bbYb `YI \ hfYa ~ 'j ~ c`Uh]``gY] b \check{z}' I ~ b X `c Vk ~ c \backslash ``L 7 B `[~ fc » Yg ~ fx) A ` c Vk ~ c \backslash ``L 7 B `[~ fx) Yg ~ fx) A ` c Vk ~ c V$

DchYbn]U``bUW\`cVYb`nY][hžg]bX`d`Òhn`]W\Y`la_Y\fib[Yb`]aaYfa Ò[`]W\"

 $: \emptyset \setminus fYb \cdot G]Y \cdot]a \quad a \quad Yf \cdot \Rightarrow fY \cdot Y][YbYb \cdot BUW \cdot ZcfgW \cdot i b[Yb \cdot fBMCF \cdot E \cdot Xi fW \cdot i bX \cdot n]Y \setminus Yb \cdot G]Y \cdot]b \cdot b \cdot YfUhYf \cdot ni \cdot _cbgi \cdot h]YfYb \cdot ZYb \cdot Yf \cdot G[Y \cdot \Rightarrow j Ygh]h]cbgYbhgW \cdot Y]Xi b[Yb \cdot hfYZZYb"$

8 Y f '8 i f W V f i W 'j c b 'C b m W c] b 'j Y f X Y i h `] W h z k] Y 'g W b Y `` 'g] W 'X] Y A U f _ h X m b U a] _ '] b 'X Y f 'K Y `h 'X Y f '5 `h W c] b g 'À b X Y f b '_U b b "

A]h'ghY][YbXYa 'Jc`i a Ybž'Y]bYa 'g]W\ 'Yf\c`YbXYb'A Uf_hi a ZY`X i bX'k UW\gYbXYa '\delta hYfYggY'XYf'\delta j YghcfYb'gW\Y]bh'L 7 B'ZØf k Y]hYfY'6Yk Y[i b[Yb'VYfY]h'ni 'gY]b"

9gʻ]ghʻYXcW\`YbhgW\Y]XYbXžʻ]bZcfa]Yfhʻi bXʻj cfg]W\h]['ni 'V`Y]VYbž i a 'g]W\`]a 'i bVYfYW\YbVUfYb'?fmdhc!@UbXgW\UZh ni fYW\hni Z]bXYb"

 $8 \ Y \ f' \ 6 \ Y \] \ hf \ U[\ \ C \ bm \ Wc] \ b' \ Df \ Y \] \ gh \ Y \ hY \ K \] \ Y' \ cW \ _Ubb' \ L \ 7 \ B' \ gh \ Y \] \ Y \ b' \ ni \ Y \ fgh' \ Ui \ Z' \ 7 \ c] \ b \ \approx i \ fb \ U'''$

8 Y hU]`g

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