

; GA!Gi ddcfh'i `"'8cVfY[c'DUghYfnU'%\$&#) ž' %!(%* '?fU_Œk a cV]`Y'Ž(, '*\$, %\$+()) ž'B=D', %' ''), *\$- 'F9; CB.'%, %\$, %' '(k k k "[ga!gi ddcfh"bYh

I `h]a U'6cl 'A chcfc`U





I`h]a U'6cl`WWb'YlYW hY`Ubmi gYf'WcXY'k f]hhYb`]b`DUgWV""H\]g`]g'i b]ei Y`gc`i h]cb`gc`ZUf`]b`YYWfcb]WXYj]WYg'a Uf_Yh''=h'Wbb`bck gi ddcfh'a cgh'cZ'A chcfc`U'd\cbYg'UbX'k cf`X`ZYUh' fY`UfY`gi ddcfh'Zcf`F G5``cW_fYa cj Y`Zfca 'd\cbY'k]h\ci h'Wca di hYf'i gU[Y'"

: YUhi fYg.

FYUX#K f]hY'l G6': `Ug\`X]g_ GYbX#FYW']j Y'XUhU'cj Yf'l 5FH'dcfh GYbX#FYW']j Y'XUhU'cj Yf'l G6'dcfh

A chcfc`U'd`i []b'ZYUhi fYg.

I b`cW]b[.

8]fYWhii b`cW_'U```@H9`UbX`BYdhi bY`VUgYX`a cXY`gži d`hc`\$, "\$5`Vcch`cUXYf"`\$, "\$5`UbX`\][\Yf`j]U`hYgh`dc]bh''
8]fYWhii b`cW_'U```@H9&`VUgYX`a cXY`g`flJ' *\$ž'J +ž'I *Ł'i g]b['hYgh`dc]bhg"`=b`Z hi fY`dcg]V`Y`X]fYWhii b`cW_'k]h\ci h`cdYb]b["
8]fYWhii b`cW_'U```'; 'A chcfc`Ugž'k]h\ A]Wfcb`UbX`=bhY``ZUg\ 'W\]dgž'k]h\ ci h`cdYb]b['i d`hc`\$"*"' "%'Vcch`cUXYf'j Yfg]cbž'\][\Yf'j]U
hYgh`dc]bh''Bc'a UhYf`cZ': K 'j Yfg]cb"
<][\Yf`Vcch`cUXYf'j Yfg]cbgž'j]U`hYgh'dc]bh''

FY`cW.

 $I `h]a \ U'6cl `]g`WdUV`Y`hc`fY`cW_a \ chcfc`U'd\ cbYgZ'hcc" \\ H \]g`]g`cb`m`XYj]WY`k \]WX `WUb`i \ b`cW_FG5`YbUV`YX`A \ chcfc`U'd\ cbYg`k]h\ci h'i g]b[`D7`VUgYX`gcZhk UfY''$

6UWid cdYfUh]cbg

 $= h^2 [g'dcgg] V'Y'hc'VUW_i d\#fYghcfY'Ubm'dUfh'cZ'd\cbY'a Ya cfmz'] bWi X] b['Z' ```ZUg\'VUW_i dz'cf'cb`m'D8G'ncbY'' bW' X] b['Z' '``ZUg\'VUW_i dz'cf'cb'm'D8G'ncbY'' bW' X] b['Z' '`Z' '``ZUg\'VUW_i dz'cf'cb'm'D8G'ncbY'' bW' X] b['Z' '' Z' '' Z'$

: `Ug\]b[.

FYUX#K f]hY`:]fa k UfY FYUX#K f]hY`@Ub[`dUW_ FYUX#K f]hY`:`YI

F YdU]f

D8G`fYdU]f`cb`a cgh'a cXY`gž`i g]b[`Z ```ZUg\`UbX`fYdU]f`gWf]dh' 6cch`cUXYf`fYdU]fž`\$I %89ž`\$I 856`UbX`ch\Yf`bUghm`Yffcf`a YggU[Yg`dfcXi WfX`Vm`dUfh]U``cf`dYfa UbYbh`XUa U[Y`]b`Vcch`cf`D8G ncbY

I b`cW_'h]a Y`]g`&`gYWcbXg`Zcf`a cgh`a cXY`gž

Bc'bYYX'hc'cdYb'd\cbYg'hc'ZUg\``Ub[i U[Y'dUW_ž

i:i``mighUbXU`cbY`D8G`FYdU]f`ZIbWh]cbgžibc`bYYX`Zcfi]bhYfbYh`WcbbYWh]cbž

·HifVc·ZUg\]b[ˈgdYYX'! Mci ·WUb·W\Ub[Ÿ:`Ub[iU[Y']b`Achcfc`U'd\cbYg`Zcf`&) ·gYWcbXg'bck ž

Bc`XYUX`VcI Yg`UZhYf`i dXUhY`flYj Yb`UZhYf`ZU]`YX`i dXUhYž'h\Y`VcI`\Ug`gdYVlJU``Ui hc`fYWċj Yfma cXYŁ

ʻ:]fgh'Vcl ˈk]h\ i b`cW_ʻgi ddcfh'Zcfʻ@H9&'d`UhZcfa ˈA chcfc`Uʻd\cbYgʻ ˈf**l" '*\$ž'@+ž'J ']ž'J 'fž'J &') ž??%?FNF**Ł

 $:]fgh^*Vcl^*k_]h^*D8G^*FYdU]f^*gi^*ddcfh^*Zcf^*J^*f^*UbX^*J_\&^*)^*A^*chcfc^*U^*d^*cbYgz^*$

`CjYf`%\$; 6`cZjU`iUV`Y`Z]`Yg`UjU]`UV`Y`]b`HifVc`Giddcfh`UfYUž

H\YI`h]a U'6cl YbUV`Yg'Mci 'hc'dYfZcfa 'Zc``ck]b['cdYfUh]cbg'cb 'A chcfc`U'a cV]`Y'd\cbYg.

FYa cj Y cdYfUhcf "cW fli b cW UbmA chcfc U'd cbYŁ

FYdU]f'"7cbhUWh'GYfj]WY'Dfcj]XYf'

FYa cj Y FG5 dfchYWh]cb

FYdU]f'"GK 'JYfg]cb. 'Bch': ci bX" 'z'"GK 'JYfg]cb. ': 1 7?SMC1 SNI @95'

FYdU]f'"7f]h]WU`'9ffcf"

I d[fUXY#8ck b[fcUXY'6cchcUXYf

7\Ub[Y``Ub[i U[Y'dUW]

 $\hbox{H\Y'A chcFcW\underline{}\Yf'Zcf'I\ `h]a\ U'6cI\ 'YbUV`Yg'Mci\ 'hc'dYfZcfa\ 'Zc``ck\]b[\ 'cdYfUh]cbg.}$

FYUX#K f]hY 6cchcUXYf 5fYU

FYUX#K f]hY @Ub[i U[Y dUW_5fYU flk]h\ci hcdYb]b[d\cbYg! Z]fgh]b h\Y k cf X°Ł

FYUX#K f]hY'D8G'5fYU

FYUX#k f]hY DUb]W5fYU

 $FYUX\#K f]hY: i ```6UW_i d'fl%* A 6ž' &A 6ž'* (A 6Ł$

I b`cW_'U``'gi ddcfhYX'a cXY`g

FYdU]f D8G cb 'U``'gi ddcfhYX'a cXY`gž']bWi X]b['A chcfc`U'@+ ']Hi bYg ftZ[fgh']b h\Y'k cf`XL

8YWighca]gUhcb

 $F\ YdU]f\ Ub\ mgc\ Zhk\ Uf\ Y\ dfc\ V\ Ya\ \ \ VWi\ gYX\ V\ mch\ Yf\ gc\ Zhk\ Uf\ Yg$

···A chcFcW_Yf7Zcf1 `h]a U·6c1 `]g7Z ``mghUbXU`cbY1gcZhk UfYž1k \]W\18C9GBCHfYei]fY1]bhYfbYhWcbbYWl]cb7Zcf1ib`cW_]b[cf1D8G $\label{lem:condition} FYdU]f'''H\]g']g'h\Y''Z]fgh'gcZhk\UfY'gi\ ddcfh]b[\ 'U``bYk\ 'd\cbYgž'k\]W\'k\cf_g'Ug'ghUbXU`cbY''' \\$

'': c``ck]b['A chcfc`U'a cXY`g'UfY'gi ddcfhYX'W ffYbh`mk]h\ 'I `h]a U'6cl '

'A chcfc`U'5*' \$

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'A chcfc`U'9)) \$

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Achcfc`U'J,\$

Achcfc`U'J% \$





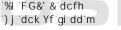
)))SUPPOR



$HY VX \ b \] VVV \ \ `] b \ Zc \ .$

'-\$I *&I &* 'a a 'g]nY '-*I*('dI'; fUd\]WU`@78 ') 'k Umg'>cmgh]W_ FYgYh'/ '9bhYf'_Ymg '&I 'I G6'5'dcfhg

A chcfc`U'J' h'F' ((' <' A chcfc`U'J' h'F' ((' I) A chcfc`U'N' 'F =NF





SUPPORT

GU`Yg`dUW_U[Y`WcbhU]bg.

'I `h]a U'6cl 'XYj]WY "&I "A chcfc`U'I G6 WUV`Yg "%| "Dck Yf"WUV"Y

'%| 'I G6'Xf]j Y

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¥ &\$&& k k k "[ga ! gi ddcfh"bYh

