

HÀ[`]WXY'?fmdhc'Dfc[bcgY''8]Y'Hcd ?fmdhc'6YkY[ib[Yb'\YihY'''%-" GYdhYa VYf'&\$&%

6]hwc]bž'6H7 ni 'I G8 ž'gh]Y['Ua 'GUa ghU['i a '&ž%('i "'6]hwc]b _Y\fhY 'Y]bYb'J Yf'i gh'j cb '%ž\$&i 'j ca ': fY]hU['i a 'i bX VYYbXYhY 'XYb'HU['VY]'(, "' \$, ž\$'` "'9]b'[Ya]gWk hYf GhUfh']b XYb'HU['ZØ\fhY 'XUni ž'XUgg'6]hwc]b'Ui Z'Y]b' \$\phfUXUm!H]YZ'j cb (+"\$** ž\$'I G8'Ua 'ZfØ\Yb'A cf[Yb'Z]Y'ž'VYj cf'Yg'Y]bY 6Yk Y[i b['a UWk hY" I a 'XUg'YfghY'[fc * Y] bhYfghØhni b[gb]j YUi 'VY]'(*"*) \$'I G8'ni 'i a [Y\Ybž'Yf\c`hY g]Wk'6]hWc]b'Ui Z'Y]b' \$\phfUXUm! < cWk'Ua 'J cfa]hhU['j cb (, ", %- ž\$'I G8"6]hWc]b'Xi fWkVfUWk'X]Y'YfghY'[fc * Y K]XYfghUbXga Uf_Y'VY]'(, "\$*&'` "'6]hWc]b'gh]Y* 'YXcWk'Ui Z XUg'nk Y]hY'[fc * Y'K]XYfghUbXgb]j YUi 'VY]'(, ", &- 'I G!8c``Uf i bX'Z]Y``Ui Z'i bhYf'(, "\$\$\$'I G!8c``Uf'ni fØW_ž'VYj cf / Ua d\Y\``]d/

6]hWc]bž'6H7'ni 'I G8ž'gh]Y['Ua 'GUa ghU['i a '&ž%('i "'6]hWc]b _Y\fhY'Y]bYb'JYf'i gh'j cb'%ž\$&ı 'j ca ': fY]hU['i a 'i bX'VYYbXYhY XYb'HU['VY]'(, "' \$, ž\$'' "

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9]b'[Ya]gW\hYf'GhUfh']b'XYb'HU['ZØ\fhY'XUni ž'XUgg'6]hWc]b'Ui Z'Y]b ±bhfUXUm|H]YZ'j cb'(+"\$** ž\$'| G8'Ua'ZfØ\Yb'A cf[Yb'Z]Y`ž'VYj cf'Yg Y]bY'6Yk Y[i b['a UW\hY" I a `XUg`YfghY`[fc»Y`I bhYfghØhni b[gb]j YUi `VY]`(*"*)\$`I G8`ni i a [Y\Ybž`Yf\c`hY`g]W\`6]hWc]b`Ui Z`Y]b`\bhfUXUm!<cW\`Ua Jcfa]hhU[`jcb`(, ", %-ž\$`I G8"

6]hWc]b'XifW.VfUW\'X]Y'YfghY'[fc»Y'K]XYfghUbXgaUf_Y'VY] (, "\$*&'`"

 $6]hWc]b'gh]Y*'YXcWX'UiZ'XUg'nkY]hY'[fc*Y'K]XYfghUbXgb]jYUi'VY] \\ (, ", \&-'IG!8c``Uf'ibX'Z]Y``UiZ'ibhYf'(, "$$$IG!8c``Uf'nifØW_ž \\ VYjcf'Yg'Y]bY'gdÀhY'IbhYfghØhnib['ZUbX"$

GdÀh'Ua 'HU['Xi fWXVfUWX '6]hWc]b'X]Y'YfghY'[fc»Y
K]XYfghUbXga Uf_Y'i bX'VYYbXYhY'XYb'HU['VY]'(, "' \$\$'`"

 $8 \ Yf'_i \ fnZf]gh][\ Y'5i \ Zk \ AfhghfYbX'V`]YV'hfchn'XYf''Øb[\ ghYb'FØW__Y\ fui \ Z'Y]b'B]j \ YUi'j \ cb'('"$$$I G8']bhU_h": Øf'X]Y'6AfYb'VfAi WkhY 6]hWc]b'Y]bYb'Ub\U`hYbXYb'FØW_[Ub['Xi fWk'X]Y'*&'i': =6'j cb &+"&' <math>Z'i \ a \ Y]bYb'_i \ fnZf]gh][Yb'5Vk AfhghfYbX'ni'V]`XYb''$

8YfFYghXYgDU_Yhg

: Øf'U``Y'UbXYfYb'A Ucfg'k Uf'Yg'Y]b'Xi fWk UWkgYbYf'HU['Ua GUa ghU["

 $7\,fmd\,hc\,"Wc\,a\,\, \, ^{1}7\,c\,]b\,\, ^{1}Z]Y\,^{1}i\,\,a\,\,\, ^{1}S\,z^{S}\,^{1}\,\, ^{1}i\,\, ^{1}[\,\,Y[\,\,Y\,b\,\,^{1}XY\,b\,\,^{1}HfY\,b\,X\,^{"}$

: Øf`XYb`FYgh`XYf`AU^cfg`kUf`Yg`^YXcW\`Y]b`Vi```]gW\Yf`HU["

6]bUbWY '7c]b 'fĒ %ž\$+'ı Łž'6]hWc]b '7Ug\ 'GJ 'fĒ '\$ž(\$'ı Łž'7UfXUbcg 585'fĒ '\$ž-+'ı Łž'9h\YfYi a 'fĒ %ž\$+'ı Łž'@]hYWc]b 'fĒ '\$ž++'ı Ł'i bX F]dd `YLFD'fĒ \$ž, (ı Ł'j YfnY]W\ bYhY 'YXcW\ 'VYgW\Y]XYbY Ni k ÀW\ gY"

±b 'XYf``Ui ZYbXYb 'K cW\Y 'Z]Y``XYf'? fmd hc!; YgUa ha Uf_h'Ui Z'Y]b A cbhU[gh]YZ'j cb '%"-) + 'A fX"'I G8 ž'VYj cf'Yf'Ui Z'Y]b

8]Y`8ca]bUbn'j cb`6]hWc]b`Z]Y``Ui Z`Y]b`A cbhU[gh]YZ'j cb`(\$ \sharp *`ı \check{z} VYj cf'g]Y`Ui Z`Y]b`: fY]hU[g\cW\'j cb`(& \check{z} \$`ı 'gh]Y["'Ni a 'NY]hdi b_h XYg`GW\fY]VYbg``U['X]Y`8ca]bUbn'j cb`6]hWc]b`VY]`($\%\check{z}$ ++`ı "

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< Yi hY A cf[Yb

Ni a 'NY]hdi b_h'XYg'GW\fY]VYbg'gh]Y['6]hWc]b'i a '\$\tilde{z}\\$\" Ui Z (, "' %(\tilde{z}\\$'9]b'[Ya]gW\hYf'GhUfh']b'XYb'HU['ZØ\fhY'XUni \tilde{z}\XUgg 6]hWc]b'Ui Z'Y]b'H]YZ'Ua 'ZfØ\Yb'A cf[Yb'j cb'(, "\&) %\tilde{z}\\$'1 G8'Z]Y\\tilde{z}\\$VYj cf'Yg'Ui Z'Y]b'<cW\'j cb'(, "' +\\$\tilde{z}' I G8'gh]Y["

6]hWc]b ``]Y » 'X]Y 'k]W\ h][ghY b 'I bhYfghØhni b[g! 'i b X K]XYfghUb Xgb]j YUi g 'ZfØ\ nY]h]['i b[YhYghY h"

5b'UbXYfYf'GhY``Y'k Uf'Yg'Y]b'Xi fWkk UWkgYbYf'GhUfh']b'XYb'HU["

6]hWc]b'7Ug\'GJ'fŽ\\$ž) +ı Ł'gW\`cgg'g]W\'6]hWc]b']a '[fØbYb'6YfY]W\ Ubž'i a 'g]W\'XYa 'VfY]hYfYb'HfYbX'ni 'k]XYfgYhnYb"

 $: \emptyset f^*X]Y^*UbXYfYb^*A^*U^*cfg^*k^*Uf^*Yg^*YXcW^*Y]b^*f\emptyset W_^Ai^*Z][^*Yf^*GhUfh''$

Ni a 'NY]hdi b_h'XYg'GW\fY]VYbg'k Uf'7fmdhc"Wca '7c]b'k Uf'i a %ž%&'ı '[Ygi b_Ybž'i a 'XYb'K Y['bUW\'i bhYb'ni 'ZØ\fYb"

: Øf XYb VYj cfghY\YbXYb 6]hWc]b!HU[

6]hWc]b'a ØgghY'XYb'D]j ch'j cb'(, "\$*('I G8'j Yfa Y]XYbž'i a 'XUg YfghY'[fc»Y'K]XYfghUbXgb]j YUi 'VY]'(-"\$*''I G8']bg'Gd]Y''ni Vf]b[Yb"

8 Ua]h'6]hWc]b'k]YXYf'Ui Z'Y]b'B]j YUi 'j cb'(-"\$\$\$'I G8 Xi fWXVfYWXYb'_Ubbž'k ÀfY'I bhYfghØhni b['j ca 'VfY]hYfYb'A Uf_h YfZcfXYf`]WX"

5V[YgY\Yb'jcb'Y]bYf'VfY]h'Ub[Y`Y[hYb'?fmdhc!FU``mY'k ØfXY'XUg YfghY'[fc»Y'K]XYfghUbXgb]jYUi'k U\fgW\Y]b`]W\'XYb 5iZk ÀfhghfYbX'VY[fYbnYb"

 $\exists a : U``Y `Y]bYf'VfY]h`Ub[Y`Y[hYb`?fmdhc!FU``mY`_ObbhY`6]hWc]b`XYbK]XYfghUbX`VY]`&' ~~z*_ı : =6 'j cb') $"(+' `` 'hYghYb~z'VYj cf'Yg'niY]bYa 'Di ``VUW_'_ca a h"'8]Y`nk Y]hY`[fc>Y'K]XYfghUbXg`]b]Y``]Y[hVY]'(-", %+'|G!8c``Uf"$

9]b': U```Xi fW\'XYb'D]j ch'j cb'(+"\$*('I G!8c``Uf'k ØfXY'XUg'YfghY [fc*Y'I bhYfghØhni b[gb]j YUi 'VY]'(+"' %\$'I G!8c``Uf']bg'Gd]Y` Vf]b[Yb"

5V[YgY\Yb']cb'Y]bYa ``Àb[YfYb'5i gj Yf_Ui Z'Ub'X]YgYa 'HU['gc``hY 6]hWc]b'g]W\'j cb'i bhYf'(*"\$\$\$'I G8'ZYfb\U`hYb"'8Ug'nk Y]hY'[fc»YI bhYfghØhni b[gb]j YUi 'VY]'(*"' %%'` 'gc``hY'X]Y'5Vk ÀfhgVYk Y[i b[VY[fYbnYb"

.

8 YhU]`a

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. '_fmd hc!bYk g"Uh