

## A Àf\_hY \_Ui ZYb Y]bYb k Y]hYfYb WX]bYg]gWX Yb 5b[f]ZZ Ui Z ?fmdhck À\fi b[Yb ni fØW\_

 $8 Y f k \ W h [ghY 5bh] Y X X Y g ? fmd hca Uf_h Y g k Uf ]b `Y hn h Y f$  $NY]hk |YXYf7|bU"8|Y6Y\OfXYbXYg@bXYg|YfgiWXYb$ YbYf[]gW\z'U``Yg'ni 'VYgY]h][Ybz'k Ug'a]h'?fmdhck À\fib[Ybz  $A \ ]b \ ]b \ [ \ i \ b \ X < Ub \ XY \ ni \ hi \ b \ \ Uh'' \ 6 \ ]h \ Yf \ c \ h \ g \ ]W \ Ui \ Z' ( ( \ \cdot \ \cdot \ )$  $i b X \mathcal{O}VYfk ]b XYh \mathcal{O}WbY \mathcal{O}X]Y \mathcal{O}i gk ]f_i b [Yb \mathcal{O}i cb \mathcal{O}X]b Ug$ JYfVchYb 8YfbY[Uh]j ghY 9ZZY\_h k Uf Y]b 6Yf]W hž XUgg ]``Y[U`Y`5\_h]j ]hÀhYb`X]Y`6YfY]hghY``i b['jcb ? fmdhck Å fi b[g UbXY gX] Ybgh Y]ghi b[Yb ZØf 6Øf[Yf XYg]WX]bYg]gWXYb::Ygh`UbXYg`i a ZUggYb"'9]bk c\bYf`XYg`FY]WXg XYf'A]hhY'bi hnhYb'X]Y'8]YbghY'jcb'6ÒfgYb'ibX'UbXYfYb ?fmdhc!D`UhhZcfa Ybž'X]Y'Ui »Yf\U`V'XYg'WX]bYg]gWXYb : Ygh`UbXYg`ni ghÀbX][ 'k UfYbž'UVYf''Yhnh'\_ÒbbhY'X]Y 6YfY]hghY``i b[ 'gc`WXYf'8]YbghY'| cb'XYf'WX]bYg]gWXYb  $FY[i]Yfib[gVY\OfXYgUb\_h]cb]YfhkYfXYb"7\]bUg$ BUhlcbu'Y'9bhk |W\_ib[q!ibX'FYZcfa\_caa]qqlcb / Ua d∧Y``]d/

8 Yf'k ]WXh][ghY'5bh]\Y`X'XYg'?fmdhca Uf\_hYg'k Uf']b'`YhnhYf'NY]h k ]YXYf'7\]bU"'8 ]Y'6Y\ÒfXYb'XYg'@UbXYg'j Yfgi WXYb'YbYf[]gWXžU``Yg'ni 'VYgY]h][Ybž'k Ug'a]h'?fmdhck À\fi b[Ybž'A]b]b['i bX < UbXY``ni 'hi b'\Uh"

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8 Yf'bY[Uh]j ghY'9ZZY\_h'k Uf'Y]b'6Yf]W\hž'XUgg']`Y[U`Y'5\_h]j ]h\hYb X]Y'6YfY]hghY``i b['j cb'?fmdhck \hat{\}\fi b[g\UbXY`gX]Ybgh`Y]ghi b[Yb ZØf'6Øf[Yf'XYg'W\]bYg]gW\Yb': Ygh`UbXYg'i a ZUggYb'''9]bk c\bYf XYg'FY]W\g'XYf'A]hhY'bi hnhYb'X]Y'8]YbghY'j cb'6\OfgYb'i bX UbXYfYb'?fmdhc!D`UhhZcfa Ybž'X]Y'Ui »Yf\U`V'XYg'W\]bYg]gW\Yb : Ygh`UbXYg'ni gh\hX]['k UfYbž'UVYf'Yhnh'\_\ObbhY'X]Y'6YfY]hghY``i b[gc`W\Yf'8]YbghY'j cb'XYf'W\]bYg]gW\Yb'FY[i`]Yfi b[gVY\\OfXY gUb\_h]cb]Yfh'k YfXYb''

7\]bUg'BUh]cbU'Y'9bhk ]\W\_i b[g!'i bX'FYZcfa \_ca a ]gg]cb'k YfhYh bi b'X]Y'I bhYfXf\OW\_i b['XYf'6Yf[VUi U\_h]j]h\AhYb'Xi f\W'X]Y'`c\_U`Yb 6Y\\OfXYb'U`g'Y]b'D`i g'Ub'\@Y]ghi b[g\_YbbnU\`Yb"'8Ug'8c\_i a Ybh ]ghj ca '&("'GYdhYa VYf'XUh]Yfh'i bX'n]Y\h'Y]bYb'G\W\`i ggghf]\W\ i bhYf'\YXY'9bhk ]\W\_i b['i bX'\bj Ygh]h]cb']b'XYb'GY\_hcf'XYg @UbXYg"'

8 UfØVYf`\]bUi g'j YfghÀf\_hY'X]Y'DYcd`Y g'6Ub\_'cZ'7\]bU'XUg': Yi Yfž ]bXYa 'g]Y'Y]bY'5b\_ØbX][i b['j YfÒZZYbh`]W\hYž'XUgg \_fmdhck À\fi b[gVYnc[YbY'5\_h]j]hÀhYb']``Y[U``g]bX" ; YgUa hY '?fmd hc!A Uf\_h\_Ud]hU`]g]Yfi b[ 'bÀ\Yfh`g]W\ 'k ]YXYf`& 6]``]cbYb '8 c``Uf

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BUWW.f]WW.hYbUb`ÀggY`g]bX`]a `?fmdhca Uf\_h`VYgcbXYfg`U\_h]j ž`XU`]\f 9]bZi gg`\]Yf`j ]Y``[ fÒ» Yf`]gh`U`g`]a `hfUX]h]cbY``Yb`: ]bUbnk YgYb" K ]Y`]a a Yf`[ ]Vh`Yg`j ]Y`Y`@Yi hYž`X]Y`a ]h`Y]bYa `FUVUhh`\_Ui ZYb a ÒWW.hYbž`k Ybb`XYf`DfY]g`g]b\_h"`

8]Y'bYi Y'K cW\Y'k]fX'XYb'?fmdhca Uf\_h'k U\fgW\Y]b`]W\'bUW\
cVYb'Vf]b[Yb"']gh'Ua 'A cbhU[a cf[Yb'i a 'ØVYf') | '[Ygh]Y[Ybž'i bX
X]YgYf'DfY]g'k]fX'X]Y'`YhnhY'?cffY\_hi ffi bXY'VU`X'Ui g[`Y]W\Yb"'ž
XYf'ZØ\fYbXY'5`hWc]bž'j YfnY]W\bYh'[YghYfb'gc[Uf'Y]b'K UW\\ghi a
j cb'%\$'i ž'k Ug'XYb''Øb[ghYb'FØW\_[Ub['ZUgh'Ui g[`Y]W\h"'

 $5bXYfY'ZØ\backslash fYbXY'5`hWc]bg'VYZ]bXYb'g]WX'YVYbZU``g']a''[fØbYb6YfY]WX ž'i bX'k Ybb'k]f'b]WXh'a]h'bYi Yb'bY[Uh]j YbBUWXf]WXhYbZU_hcfYb'_cbZfcbh]Yfh'k YfXYbž'k]fX'XYf'?fmdhcaUf_hVU`X'k]YXYf'X]Y'?Ud]hU`]g]Yfi b[g[fYbnY'j cb'&'6]``]cbYb'l G!8c``Uf ØVYfgWXfY]hYb'i bX'bcWX'\Ò\Yf'ghY][Yb''$ 

8 Ug: I Dfc!5bU`mghYbhYUa

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: i g]cbga YX]Yb cXYf ]f[ YbXYa UbXžXYf Ub : i g]cb A YX]U

VYhY]`][h']ghžØVYfb]a a h'\_Y]bY'<UZhi b['ZØf'JYf'i ghY'cXYfGW.ÀXYbž'X]Y'g]W.'Ui g'XYa 'JYfhfUi Yb'Ui Z'X]Y'Ui Z'X]YgYf'K YVg]hYYbh\U`hYbYb' \DZcfa Uh]cbYb'Y]bgW\`]Y»`]W\'8 UhYbž'?i fgYž8]U[fUa a Y'i bX'?Ui Z!#JYf\_Ui Zgg][bU`Y'Yf[YVYb"'6]hhY]bZcfa ]YfYb'G]Y'g]W\'i a ZUggYbX'ØVYf'X]Y'F]g]\_Yb'i bX'?cghYbž'X]Ya]h'XYa '<UbXY`'Ub'XYb':]bUbna Àf\_hYb'j YfVi bXYb'g]bXž'XU'Ygg]W\'i a 'Y]bY'XYff]g\_UbhYghYb'5b`U[YZcfa Yb'\UbXY`h"'

 $\label{eq:localize} $$ Zi bWh]cbfZVZYZj ZbZhZgLO]ZfZ'ZVeLfYhi fb/b1 Z'ZVe1 Zi bWh]cbfLob"WU``A Yh\cX3 $$ b"WU``A Yh\cX"Udd`mfbZUf[ia YbhgLb"eiYiY"dig\fUf[ia YbhgLq/]ZflZ'SZVeLZ'SZVe1 b/b"dig\1 b/b"`cUXYX1 $$/b"jYfg]cb1 f&"$fi/b"eiYiY1 002h1 V"WfYUhY9`Ya YbhfNL/h"UgmbW1 $$/h"gfW1 j/g1 V"[Yh9`Ya Ybhg6mHU[BUa YfYLO$Q'g"dUfYbhBcXY"]bgYfh6YZcfYfhZgLqfk]bXck Z'XcWia YbhZfigWf]dhfzfi\hdg.#WcbbYWh"ZUWYVcc_"bYh#YbSlG#ZVYjYbhg"^gfL/ZVeff]b]hfzfl+) %%%$,,%* ('&),fL/ZVefffhfUW_fzfbU[YJ]YkfL/`$ 

8 Y hU]`q

6Ygi WXYb G]Y i bg Ui Z \_fmdhc!bYk g"Uh