

5`YI UbXYf'Nj YfYj ']b'A Y`Vci fbY'`Y]WX h']b X]Y'nk Y]hY'Fi bXY

5 YI Ub XYf Nj YfYj YffY]W hY XUg 5 W hY Z]b U Y a]h Y]b Y a gci j Yf Ab Yb G]Y[[Y[Yb gY]b Yb @]Y V]b [g[Y[b Yf V Y] X Yb 5 i ghf U] Ub C d Y b " 8]Y XY i hg W Y B i a a Yf Y]b g "[Yk Ub b]b A Y `V c i fb Y [Y[Yb X Yb : f Ub n c g Yb 5 X f] Ub `A Ub b U f]b c `a]h * .

' ž * . " ž * . % i b X Ø V Y f `Y V hY `X Ua]h `n i a `X f]hh Y b `A U `]b : c `[Y X]Y `X f]hh Y `F i b X Y `X Y g `Y f gh Y b ; f Ub X `G `Ua ! Hi f b] Y f g `X Y f HY b b] g g U] g c b " / Ua d / , & & & / \(\alpha \) & \(\alpha \) X f Y i Y `a] W `Ø V Y f `X Y b `G] Y [i b X `V] b `Z f c \ ž]b `X f Y] `G A hn Y b `X i f W [Y _ ca a Y b `n i g Y] b / Ua d / , & & \$ / \(\alpha \) g U W gh Y `G] Y [`] a `g Y W gh Y b `8 i Y ` `a]h `A Ub b U f] b c " 5 ` `Y] b `] a j Y f [Ub [Y b Y b '\] \ f `\ Uhh Y `X Y f `& '! \(\alpha \) \ f [Y X f Y]a U ` [Y [Y b `X Y b @] b _g \ \(\alpha \) X Y f `[Y k c b b Y b " / Ua d / , & & & / 8] Y `8 i Y ` `Y `] a ` `Y hn h Y b \(\alpha \) \ f `k U f Y b `U ``Y / Ua d \(\alpha \) \ Y ``] d /

5`YI UbXYf'Nj YfYj 'YffY]W\hY'XUg'5W\hY`Z]bU`Y'a]h'Y]bYa gci j YfÀbYb'G]Y['[Y[Yb'gY]bYb'@]YV`]b[g[Y[bYf'VY]'XYb 5i ghfU`]Ub'CdYb"

 $8]Y `XYi hgWX Y `Bi a a Yf `Y]bg `[Yk Ubb `]b `A Y `Vci fbY `[Y[Yb `XYb : fUbncgYb `5 Xf]Ub `A UbbUf]bc `a]h `* . '' ž * . '' ž * . '% i b X `ØVYf `YVhY XUa]h `ni a `Xf]hhYb `A U` `]b :: c `[Y `X]Y `Xf]hhY `Fi b XY `XYg `YfghYb ; fUb X `G `Ua !Hi fb]Yfg `XYf `HYbb]ggU]gcb " <math>= WX \cdot ZfYi Y \cdot a = WX \cdot ØVYf \cdot XYb$ G]Y[`i b X `V]b `Zfc \ ž]b `XfY] `GÀhnYb `Xi fWX [Y_ca a Yb `ni `gY]b ž `gU[hY Nj YfYj " :: Øf]\ b `k Uf `Yg `XYf `gY WX ghY `G]Y[`]a `gY WX ghYb `8i Y `` `a]h A UbbUf]bc " :5 ``Y]b `]a `j Yf[Ub[YbYb \$J\f`\ UhhY `XYf `&' !\À\f][Y XfY]a U` [Y[Yb `XYb `@]b_g\ Ab XYf `[Yk cbbYb "

8]Y'8iY``Y']a ``YhnhYb'IJ\f'k UfYb'U``Y'Yb["'∃W\'k Uf'Ua '5bZUb[Yhk Ug'a ØXYž'XYg\U`V'\UVY']W\'j cb'5bZUb['Ub'j Yfgi W\hž'gY\f_fUZhj c```ni 'gd]Y`Yb ž'gU[hY'Y]b'ZfÒ\`]W\Yf'Nj YfYj 'bUW\'gY]bYf Nj YfYj ž'XYf``YhnhY`XYi hgW\Y`HYbb]gdfcZ]`]b`A Y`Vci fbYž'hf]ZZh`Ua GcbbhU[`Ui Z'8i gUb`@U^cj]Wž'Bi a a Yf`&' "'8Yf`GYfVY`[Yk Ubb [Y[Yb`DYXfc`A Ufh]bYn`Ui g`GdUb]Yb`a]h`*.`+`ff*.`, Łž'+.`) ž'*.`%ž'*.`("8Ubb`k]fX`Yg`UbXYfg`U`g`Ua `: fY]hU[`_Y]bY`Ni gW\Ui Yf`[YVYb" 5i Z[fi bX`XYg`7cfcbU!5i gVfi W\g`]b`Y]bYa `: `i [\UZYb\chY``]gh`X]YUi ghfU`]qW\Y`A Yhfcdc`Y`YfbYi h`ZØf`ZØbZ'HU[Y`[YgdYffh"

6]g'Y]bgWX`]Y»`]WX`A]hhk cWX`g]bX`_Y]bY: Ubg']b'XYf'5b`U[Y']a

A Y`Vci fbY'DUf_'Yf`Ui Vh'' B UhØf`]WX`]gh'Yg'Y]bY'GWX UbXY'ZØf'YXYb

Gd]Y`Yf'''HYbb]g'c\bY'Ni gWX Ui Yf']gh'UbXYfg''K]f'gd]Y`Yb'ZØf'X]Y

Ni gWX Ui Yfž'k]f'gd]Y`Yb'ZØf'X]Y'A ca YbhY'Ui Z'XYb'[fc»Yb'D`ÀhnYb

j cf'&\$"\$\$\$`AYbgWXYb ž'gU[hY'Nj YfYj "'5VYf'; Ygi bX\Y]h'ghY\h'Ub

YfghYf'GhY``Y'''G]Y'a ØggYb'g]WX'i a = f'@UbX'_Øa a Yfbž'XUg'ZØf'X]Y

5i ghfU`]Yf'5i ghfU`]Yb']ghž'XUa]h'G]Y'XUg'j YfghY\Yb'_ÒbbYb'''9]b

HYbb]ghi fb]Yf']gh'XYfnY]h'b]WXh'XUg'K]WXh][ghY'Ui Z'XYf'K Y`h'ZØf'X]Y

A YbgWXYb'''8 Ug'K]WXh][ghY']gh'X]Y'; Ygi bX\Y]h'I bX'Yhnh'Ui WX

XUfUi Z'UWXhYb'''

Nj YfYj 'VY[Ubb 'g]WX ']b 'XYf'F c X '@Uj Yf'5fYbU'ni '_cbnYbhf]YfYbž a i gghY 'UVYf'Y]bYb 'gWX k]Yf][Yb 'A ca Ybh'ZfØ\nY]h]['ØVYfghY\Yb" 5`g'XUg'9f[YVb]g'&. '&'k Ufž'\UhhY'A UbbUf]bc'nk Y]'6fYU_VU``gž'UVYf X]Y 'XYi hgWXY'Bi a a Yf'Y]bg'j YfhY]X][hY'g]Y 'VY]XY'ni j Yfg]WX h`]WX" GhUhhXYggYb 'bU\a 'Yf'_i fn'XUfUi Z'XYb'5i ZgWX`U['j cb'XYb : fUbncgYb'i bX'bU\a 'XYb'YfghYb'GUhn'Yhk Ug'gdÀhYf'a]h'XYa YfghYb'GUhnVU``"

5i W.]a 'nk Y]hYb'GUhn'\UhhY'Nj YfYj 'XUg'Gd]Y``]a a Yf'i bhYf ?cbhfc``Y"'Jcb'XYb'6Ui W.a i g_Y`dfcV`Ya Ybž'X]Y']\b'gY]h'6Y[]bb XYg'Hi fb]Yfgž']bgVYgcbXYfY'VY]a '5i ZgW.`U[ž'VY\]bXYfh'\UhhYbž k Uf'X]Yga U``b]W.hg'Yf_YbbVUf"'\#\'XYb'YfghYb'VY]XYb'GÀhnYb'hfUZ XYf'[YVØfh][Y'<Ua Vi f[Yf'nY\b'5ggY']b'gY]bYa 'A i g_Y`g\]fh'i bX [UV'A UbbUf]bc'a]h'gY]bYa '_fUZhj c``Yb'Gd]Y`'_Y]bY'7\UbW'' HfchnXYa '\UVY']W.'a]W.']a a Yf'bcW.'i a 'a Y]bYb'?ÒfdYf [Y_Øa a Yfh''5VYf'\cZZYbh`]W.'k]fX'Yg'j cb'HU['ni 'HU['VYggYf ž gU[hY'Nj YfYj'"

Ni '6Y[]bb'XYg'Xf]hhYb'5VgWXb]hhg'Yf`]hh'Nj YfYj 'Y]bY'_`Y]bY GWXkÀWXYd\UgY'i bX'a i gghY']a 'YfghYb'5i ZgWX`U[gd]Y`'Y]bYb 6fYU_VU``'UVkY\fYb"'5VYf'Nj YfYj 'ØVYf`YVhY'X]YgY'_`Y]bY 8fi W_d\UgYž'a UWXhY'_i fn'XUfUi Z'Y]bY'DUi gY'i bX'\UhhY'XUbb'Y]b 'Y]WXhYg'Gd]Y`"'BUWX'% ('''Ghi bXYb'VYbi hnhY'Yf'gY]bYb'YfghYb A UhWXVU``'a]h'Y]bYa '5qq"

| 'XdU!]bZcWca ž'XdU.'&%\$&%&!--!(\$,'(('#(

XdU

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=bgd]f]Yfh'j ca '@J N'BYk gh]W_Yf'!2'Ni a '_ca d`YhhYb'5fh]_Y`

8 YhU]`q

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