

@]ei]X GhU_]b[!D`UhhZcfa Yb ghY][Yb j cf XYa I d[fUXY j cb 9h\YfYi a G\Ub[\U]

8]Y'bYi YghY'9fnÀ\`i b['j cb'7fmdhc']gh'XUg'@]ei]X'GhU_]b[ž'XU D`UhhZcfa Yb'i bX'Hc_Yb']b'`YhnhYf'NY]h'UV[Y\cVYb'\UVYb"

 $9h\ YfYi\ a\ 'k\]fX']a\ 'A\ Afn'XUg'G\ Ub[\ V]!I\ d[\ fUXY'Xi\ fWX'Ui\ ZYbž\\ k\ cXi\ fWX'X]Y'Ui\ Z'XYa\ '6YUWcb'[\ YghYW_hY'9H<'ZfY][\ Y[\ YVYb'k\]fX\\ 7\ U]b"'6fUbWXYbUbU`mghYb'[\ `Ui\ VYbž'XUgg'X]Yg'Y]bY'[\ i\ hY\\ BUWXf]WXh'ZØf'@]ei\]X!GhU_]b[\ !Dfchc_c``Y'gY]b'k\]fXž'XU'g]Y'VYggYfY\\ 5bfY]nY'i\ bX'9fhfA[\ Y'V]YhYb"'=a\ ';\ Y[\ YbgUhn'ni\ a\ 'X]fY_hYb'9]bgUhn\\ V]YhYb'g]Y'Y]bY'ZYI\]V`YfY'A\ O[\ `]WX_Y]h'ni\ a\ '9]bgUhn'i\ bX'ni\ a\\ J\ YfX]YbYbž'c\bY'X]Y'G]WXYf\Y]hYb'gdYffYb'ni\ 'a\ ØggYb''$

5a "%\$"" *\u00e4bi Uf`gU[hY`] _hcf`8Y:] 'ni 'gY]bYb'%' "\$\$\$ '5b\\u00e4b[Yfb.

@]ei]X'GhU_]b['8Yf]j Uh]j Yg'f@G8E'Yl d`cX]Yfh'a]h'XYa VYj cfghY\YbXYb'G\Ub[\U]!l d[fUXY'j cb'9h\YfYi a" 7 fmd hc 'B UffUh] Yg'5'd U!GYf]Y' \$%

@]ei]X'GhU_]b['8Yf]j Uh]j Yg'f@G8E'Yl d`cX]Yfh'a]h'XYa VYj cfghY\YbXYb'G\Ub[\U]'l d[fUXY'j cb'9h\YfYi a"

⇒W. `\UVY`%"('-'A]bi hYb`XUa]h'j YfVfUW\hž:X]Y`@G8!9fnÀ\`i b['ni YfZcfgW\Ybž'U`gc'a ØggYb'G]Y'Yg'b]W\h'hi b"

d]Whk]hhYf"Wca # _k +, ba +Jg

@]ei]X GhU_]b[K c[Yb

Ni [$\dot{A}b[\dot{A}b[\dot{A}b]]$ bvyk Y[$\dot{A}b]$ bvy Buwk hy] $\dot{A}b$ graph hc!Ghu_]b[g $\dot{A}b$ graph with Y bvy Buwk hy] $\dot{A}b$ graph hc!Ghu_]b[g $\dot{A}b$ graph with Y bvy Bvb ghu_]b[length y bvy Bvb ghu_]bvy Bvb ghu_]b

@|Xc']gh'X]Y'ZØ\fYbXY'GhU_]b[!D`UhhZcfa 'XYf'6fUbW\Y'a]h'(ž, A]``]cbYb'9H<!GhU_Ygž'k Ug''\$'i 'XYg'; YgUa hVYhfU[g'Ybhgdf]W\h''

 $GY]b^*; cj YfbUbWY!Hc_Ybž^@8Cž^k Uf^*]b^*XYb^*YhnhYb^*K cWXYb^*]b : `Ua a Yb^*i bX^*\Uh^*]b^*XYb^*YhnhYb^*g]YVYb^*HU[Yb^*gUhhY^*) + `i ni [Y^Y[h''5bXYfY^GhU_]b[!D^UhhZcfa !Hc_Yb^*k]Y^GhU_YK]gY fGK <math>=$ 69£^\UVYb^*g]WX^*YVYbZU^*g^*[i h^*Ybhk]W_Y^h''

8]Y'Ui Z'D`UhhZcfa Yb'k]Y'@]Xcž'FcW_Yh'Dcc`ž'GhU_YK]gY'i bX': fUI [YgYhnhYb'6YhfÀ[Y'g]bX'YVYbZU``g'ghYh]['[Ygh]Y[Ybž'XU'X]YgY'bYi Y9fnÀ\`i b['Ub'8mbUa]_'[Yk]bbh"

 $= a + Y[YbgUhn'ni @]Xc']gh'FcW_Yh'Dcc``Y]bY'ni `Uggi b[gZfY]Y'i bX ghUf_'XYnYbhfU`]g]YfhY'ZØ\fYbXY'5bU`mgYž'i a 'j cf\Yfni gU[Ybž'XUgg Yg'Y]b'A Uf_hZØ\fYf'k YfXYb'_<math>ObbhY''$

5i Z'XYf'UbXYfYb'GY]hY'[]Vh'Yg'Y]b'dUUf'F]g]_Yb'ZØf'`]ei]XY'GhU_]b[! Dcc`gž'k]Y'n"'6"'XUg'Ga Ufh!7cbhfUWh!F]g]_cž'XUg'8Y!DY[!F]g]_c fXUg``YhnhYg`\J\f`a]h`@]Xcg`gh9H<`dUgg]Yfh`]ghL`i bX`XUg`F]g]_c`XYf ?Øfni b["

8 U'X]Y'UV[YghYW_hY'9H<'YXcW\"Ub[gUa 'ZfY][Y[YVYb'k]fXž_\"DbbhY'Y]b'; fc»hY]`'XUj cb']b'X]YgYa '\\J\f'Ui Z'`i _fUh]j YfY'Z'\\\\ggg][Y 5 \\ghtym_d`Uhh\Zcfa Yb'j Yf`U[Yfh'k YfXYb"'B]\\\h'U``Y'Y]b[YgYhnhYb 9H<'k YfXYb'Ui Z'Y]ba U`'j Yf\\\\\\[VUf'gY]b\z\XJ\X]Y'U_hi Y``Yb \\\\GdYn]\z]_Uh]cbYb'`\Ui h'7c]bA Yhf]\\\\\\\gamma'a UI]a U`') +"*\$\$
HY]`UV\YVi b[Yb'dfc'HU['ni `UgqYb"

9h\YfYi a !DfY]gUi gV`]W_

@Ui h'7c]b; YW_c'g]bX'X]Y'9H<!DfY]gY'Ub'X]YgYa 'HU['XYfnY]h'i a '% I 'Ui Z'%"' &' '` '[Ygh]Y[Yb"'8Yf'JYfa Ò[Ybgk Yfh'\Uh'g]W\'bi f 'Ub[gUa 'Ui g'XYa 'GW\UhhYb'gY]bYg'[fc»Yb'6fi XYfg \YfUi gVYk Y[h'i bX'V`Y]Vh'+' I 'i bhYf'gY]bYa '5``nY]h\cW\'j ca Bcj Ya VYf'&\$&%"

. . .

8 Y hU]`q

6 Y gi W Y b 'G] Y 'i b g 'U i Z '_fmd hc!b Y k g "Uh