GYUfWX '=bhYbg]Z]Yg'Zcf'A]gg]b['%)!MYUf! C`X';]f`']b'GiahYf'7cibhm

GYUfW\'YZZcfhg'UfY'i bXYfk Um'Zcf'%)!mYUf!c`X'@YU\'?Um FcUW\žfYdcfhYX'a]gg]b[']b'Gi a hYf'7ci bhm"'8YhU]`g'cb'\Yf UddYUfUbW'UbX'`Ugh'gYYb'`cWUh]cb'UfY'Uj U]`UV`Y"



7"F"·*) * 'Ub X 'GK '() h\ 'GhfYYhž'K YVghYfž': @ž'I G5'!'Cb'\$bY %) ž'&\$&) ž'h\Y'Gi a hYf'7ci bhm'G\Yf]ZZg'C ZZJWY']g'UWh]j Y`m gYUfW\]b['Zcf'U'a]gg]b['%) !mYUf!c`X'[]f`'bUa YX'@YU\'? Um'FcUW\" 5\W\cfX]b['hc'7`]_'Cf`Ub Xcž'@YU\'k Ug'`Ugh'gYYb'Ufci bX'%'d"a "cb'GUhi fXUm']b'h\Y'j]\W]b]hm'cZ'7"F"'*) * 'Ub X'GK '() h\ 'GhfYYhž'bYUf K YVghYf"'G\Y']g'XYg\Wf]VYX'Ug'\Uj]b['U'\Y][\h'cZ') 'ZYYh') ']b\W\Yg Ub X'k Y][\]b['Uddfcl]a UhY`m'\%' \$'dci bXgž'k]h\ 'V`cbXY'\U]f'Ub X ghf]_]b['V`i Y'YmYg"'5h'h\Y'h]a Y'cZ'\Yf'X]gUddYUfUb\W'z'g\Y'XcbbYX U'V`U_'\ccX]Yz'XUf_'YUbgz'UbX'k\]h\'g`]XYg"

H\Y`W]fW a ghUbW g`gi ffci bX]b[`@YU\ g`X]gUddYUfUbW \\Uj Y fU]gYX`WcbW fbg`k]h\]b`h\Y`Wca a i b]hm"5bmcbY`k\c`a Um`\Uj Y Ubm`]bZcfa Uh]cb`fY[UfX]b[`\Yf`k\YfYUVci hg`]g`i f[YX`hc`WcbhUWh $h\ Y\ Gia\ hYf\ 7\ cibhm\ G\ Yf\]ZZ\ g\ C\ ZZ\]WY\ Uh'\)\ \&!\ +-\ '\ !\ \&*\ \&\%\ cf\ X\]U\ '-\ \%\%'' \\ H\ Y\ i\ f[\ Yb\ Wm\ c\ Z'h\ Y\ g]hi\ Uh\]cb\ ']g\ i\ ba\]ghU_UV\ Y\ Z'\ Ug\ \ Yf\ gU\ ZY\ fYhi\ fb \\]g\ U'\ df\]cf\]hm\ Zcf\ V\ c\ h\ \ \ \ Yf\ ZUa\]\ 'm\ Ub\ X\ '\ c\ WU\ 'Ui\ h\ cf\]h\]Yg''$

@cWU`7f]a Y 7cbhYlh

@YU\ g'WUgY']g'dUfh]W'`Uf`m'U`Ufa]b['[]j Yb'h\Y'\][\Yf'Wf]a Y'fUhYg]b'Gi a hYf"'5\W\cfX]b['hc'\BY][\\Vcf\ccX'\G\\cin\text{G}\\text{in}\text{b}'\Gi a hYf'\Ug'U\\Wf]a Y'fUhY'cZ'(, ']b\W]XYb\hg'\dYf'\cbY'\h\ci gUbX'\fYg]XYb\hg\text{b}\text{b}\text{b}'\tex

 $GhUh]gh]Wg^{*}]bX]WUhY^{*}h\ Uh^{*}h^{*}Y^{*}]_{ccX^{*}cZ^{*}VYWca} \]b[\ U^{*}j]Wh]a \ cz^{*}U j \]c^{*}Ybh^{*}Wf]a \ Y^{*}]b^{*}Gi \ a \ hYf^{*}]g^{*}cbY^{*}]b^{*}\%(z^{*}k^{*})W^{*}]g^{*}i \ bgYhh^{*}]b[\ ZcffYg]XYbhg^{**}+i^{*}]bWi \ XYg^{*}gYj \ YfY^{*}cZZYbgYg^{*}gi \ W^{*}Ug^{*}\ ca \]W]XY^{*}UbX \ U[\ [fUj \ UhYX^{*}UggUi \ h^{*}DfcdYfhm^{*}Wf]a \ Yg^{*}UfY^{*}U^{*}gc^{*}hfci \ V^{*}]b[\ z^{*}k \]h^{*}U fUhY^{*}cZ^{*}' - idYf^{*}cbY^{*}h^{*}ci \ gUbX^{*}fYg]XYbhg^{**}H^{*}Y^{*}dfYj \ U^{*}Ybh^{*}dfcdYfhm \ Wf]a \ Y^{*}gWY^{*}bUf]cg^{*}]bWi \ XY^{*}j \ Y^{*}]WY^{*}h^{*}YZhz^{*}k \ YfY^{*}h^{*}Y^{*}WM^{*}UbW^{*}cZ \ Uj \]b[\ U^{*}WUf^{*}ghc^{*}Yb^{*}]b^{*}Gi \ a \ hYf^{*}]g^{*}cbY^{*}]b^{*}\&-+"$

7ca a i b]hm F YgdcbgY Ub X GUZYhm A YUgi fYg

H\Y'Gi a hYf'7ci bhm'G\Yf]ZZg'CZZ]WY']g'bch'cb`m']bj c`j YX']b'h\Y gYUfW\'Zcf'@YU\'Vi h']g'U`gc'UXXfYgg]b['gUZYhm'WcbWYfbg']b'h\Y UfYU"'5g'fYdcfhYX'Vm'Gi a hYf'7ci bhm'G\Yf]ZZž'U'bi a VYf'cZ]bX]j]Xi U`g'UfY'W' ffYbh`m']b''U]`'ZUW]b['j Uf]ci g'W\Uf[Yg fUb[]b[Zfca 'hfUZZ]Wj]c`Uh]cbg'hc'a cfY'gYf]ci g'cZZYbgYg']bWi X]b[dcggYgg]cb'cZ'Wcbhfc``YX'gi VghUbW'g"'H\]g'WcbhYI h'\][\`][\hg cb[c]b['Wf]a]bU`'UWh]j]h]Yg']b'Gi a hYfž'k UffUbh]b['h\Y'Wca a i b]hm hc'fYa U]b'j][]`Ubh"

5g'h\Y'gYUfW\'Zcf'@YU\'Wcbh]bi Ygž'Wca a i b]hm'gi ddcfh'VYWca Yg YggYbh]U`"'GUZYhm'a YUgi fYg'UbX'Uk UfYbYgg'WUb'a U_Y'U g][b]Z]WUbh'X]ZZYfYbWY'Ug'fYg]XYbhg'UfY'YbWci fU[YX'hc'ghUm]bZcfa YX'UbX'dfcUWh]j Y']b'Ybqi f]b['h\Y'k Y``VY]b['cZ'h\Y $\label{thm:condition} Wcaaib]hm"`l~h]a~UhY`mž`@YU\g`gUZY`fYhi~fb`]g`h\Y`i~ha~cgh`[~cU`ž~UbX`Yj~Yfm`Y~ZZcfh`Wci~bhg`]b`a~U_]b[~h\Uh`\UddYb"$

8 YhU]`g	
Cfh	7"F"`*) * 'UbX'GK '() h\ 'GhfYYhž'K YVghYfž': @ž
	I G5
EiY``Yb	• k k k "₩]W_cf`UbXc"Wca
	dcfhU`"gi a hYfWci bhmg\Yf]ZZ"cf[
	• k k k "bY][\ Vcf\ccXgWci h"Wca

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'a Y]b!k]Yb "b Yh