<]``gVcfci [\ 5hhcfbYm'5ffYghYX']b G\cW_]b[7\]`X'Dcfbc[fUd\m'7UgY°</pre>

D]bY``Ug'7ci bhm'XYhYWh]j Yg'UffYgh'U'ghUhY'UhhcfbYm'Zcf'W\]`X dcfbc[fUd\m/']bj Ygh][Uh]cb'\][\`][\hg'U'[fck]b['Wf]g]g']b $W \]`X'YI \ d`c]hUh]cb''$



 $D]bY``Ug`7cibhmž'IG5'!`8YhYWh]jYg`Zfca`h\Y`D]bY``Ug`7cibhmG\Yf]ZZg`7f]aYg`5[U]bgh`7\]`XfYb`Ib]h`fYWbh`m`hcc_'U`g][b]Z]WUbhghYd`]b`h\Y]f`cb[c]b[`Z][\h'U[U]bgh`W\]`X`YId`c]hUh]cb''`H\YmUffYghYX`K]``]Ua`5bXfYk`&bYgž`U''&!mYUf!c`X`5gg]ghUbh`GhUhY5hhcfbYm`Zfca`<]``gVcfci[\`7cibhmž'cb'gYf]cig`W\Uf[Yg`]bWiX]b[HfUbga]gg]cb'UbX`DcggYgg]cb'cZ`7\]`X`Dcfbc[fUd\m'''H\Y]bjYgh][Uh]cb']bhc'&bYg`VY[Ub'cb'<math>\Rightarrow$ `m' \$ž'&\$&(\$z'Zc``ck]b[`fYdcfhgcZ'W\]`X`dcfbc[fUd\m'Z]`Yg`UWW'ggYX`UbX`g\UfYX`cb`]bY''

I $bXYfghUbX]b[h\Y = a dUWhcZ7 \] X$ 9I d`c]hUh]cb

H\Y'bUhi fY'cZ'W\]X'YI d`c]hUh]cb']g'\Uffck]b[ž'UbX'a Ubmj]Wh]a g
UbX'ZUa]`]Yg'Z]bX'h\Ya gY`j Yg'ZYY`]b[']gc`UhYX'UbX'cj Yfk \Y`a YX"

♣h g'Wfi W]U`'Zcf'UbmcbY'UZZYWhYX'hc fYUW\'ci h'hc'hfi ghYX']bX]j]Xi U`g
gi W\'Ug'dUfYbhgž'fY`Uh]j Ygžcf'gW\cc`'Wci bgY`cfg'Zcf'gi ddcfh"H\Y
BUh]cbU`'7YbhYf'Zcf'A]gg]b['/ '9I d`c]hYX'7\]`XfYb'fB7A 97Ł'd`Umg
U'j]hU`'fc`Y']b'h\]g'`UbXgWUdY"'H\Y]f'gi ddcfh'YI hYbXg'hc'Wf]g]g
]bhYfj Ybh]cb'UbX'fYZYffU`g'hc'`cWU`'Wci bgY`]b['dfcZYgg]cbU`gž
dfcj]X]b['a i W\!bYYXYX'Ugg]ghUbW''hc'ZUa]`]Yg'WUi [\h']b'h\YgY
Wf]gYg'': i fh\Yfa cfYž'h\Y'B7A 97 g'HYUa '< CD9'WcbbYWhg'ZUa]`]Yg
k]h\'ch\Yfg'k\c'i bXYfghUbX'h\Y]f'ghfi [[`Ygž'WfYUh]b['U'bYhk cf_
cZ'gi ddcfh'Xi f]b['XUf_'h]a Yg''' ♣bX]j]Xi U`g'WUb'U`gc'gY`ZlfYdcfh
]bW]XYbhg'hc'h\Y'7mVYfH]d`]bYž'k\]W\'Wcbh]bi Yg'hc'VY'Ub
]a dcfhUbh'dUh\k Um'Zcf'fYdcfh]b['gi W\'Wf]a Yg''

5g'h\Y'VUhh'Y'U[U]bgh'W\]`X'gYliU`'Yld`c]hUh]cb']bhYbg]Z]Ygž'h\Y
fc`Y'cZ'hYW\bc`c[m'\Ug'VYWcaY']bWfYUg]b[`m'Wcad`Yl"'5fh]Z]W]U`
]bhY``][YbW'fb±'bck'd`Umg'U'hfciV`]b['dUfh']b'h\Y'dfc`]ZYfUh]cb'cZ
W\]`X'gYliU`'UVigY'aUhYf]U`'ff7G5A±"'5'fYdcfh'Zfca'h\Y'GhUbZcfX
±bhYfbYh'CVgYfjUhcfm'7mVYf'Dc`]Wm'7YbhYf'\][\`][\hg'h\Uh'h\Y
]ggiY']g'bch'aYfY`m'U'Z hifY'h\fYUh'Vih'U'Wf]g]g'h\Uh'XYaUbXg
if[Ybh'UhhYbh]cb"'5=g'WUdUV]`]hm'hc'WfYUhY'X][]hU``m'aUb]di`UhYX
Yld`c]hUh]jY']aU[Yg'cZ'W\]`XfYb'Wcad`]WUhYg'h\Y']XYbh]Z]WUh]cb'cZ
fYU`'j]Wh]ag'UbX'Vf]b[g'Zcfh\'bYk'W\U``Yb[Yg'Zcf``Uk

 $H\Y`WcbWYfb]b[\ ghUh]gh]Wg`gdYU_'j\ c`i\ a\ Yg.\ h\Y`B7A97`\Ug fYdcfhYX`cjYf',\ \&`a\]``]cb']bghUbWYg`cZ'7G5A ž``YUX]b[\ hc`a cfY h\Ub`%- ž$$$']XYbh]Z]YX`j]Wh]ag''<ckYjYfž'ZYkYf'h\Ub`%$i\ cZ'h]dg gi Va]hhYX`h\fci[\`h\Y`7mVYfH]d`]bY``YUX`hc`dfcgYW'h]cbž]``i\ ghfUh]b[\`h\Y`g][\b]Z]WUbh`\i\ fX`Yg`ZUWYX`]b`h\YgY`]bj\Ygh][\Uh]cbg'' 5`fi`]b[\]b`&$%*``]a]hYX`h\Y`B7A97\g`UV]`]hm`hc`YbWci\fU[Y\d`UhZcfa\g`hc`fYdcfh`cb`WYfhU]b`cb`]bY`VY\Uj\]cfgž`UXX]b[`Ubch\Yf`UmYf`cZ'X]ZZ]W``hm`]b`h\Y`Z][\h`U[\U]bgh`7G5A''$

HY = a dcfhUbWY cZ5k UfYbYgg UbX 5Wh]cb

 $9ZZcfhg'hc'Wca VUh'h\]g'YgWU`Uh]b['Wf]g]g'UfY'a i `h]ZUWYhYXž'k]h\ WU``g'Zcf'`Y[]g`Uh]j Y'UWh]cb'[U]b]b['a ca Ybhi a "'\delta]h]Uh]j Yg'`]_Y'h\Y?]Xg'Cb`]bY'GUZYhm'5Wh'U]a 'hc'h][\hYb'dfchYWh]cbg'Zcf'a]bcfg cb`]bY'k\]`Y'gi [[Ygh]b['Ua YbXa Ybhg'hc'GYWh]cb'&' $'cZ'h\Y7ca a i b]WUh]cbg'8YWYbWm'5Wh'h\Uh'\c`X'X][]hU`'d`UhZcfa g UWWci bhUV`Y'Zcf'h\Y'WcbhYbh'h\Ym'\cgh'''9I dYfhg'k Ufb'h\Uh i bW\YW_YX'5\d![YbYfUhYX'7G5A 'a][\h'bcfa U`]nY'h\Y gYI i U`]nUh]cb'cZ'a]bcfgž'dchYbh]U``m'WfYUh]b['[UhYk Umg'hc'Z] fh\YfYI d`c]hUh]cb''$

 $\pm n g `Y g g Y b h] U `` Z c f `U X i ` h g `h c `h U _ Y `d f c U W h] Y `g h Y d g `h c `Y X i `W U h Y $$ W] `X f Y b `U V c i h `h \ Y `X U b [Y f g `c Z `c b `] b Y `Y I d `c] h U h] c b ž `] b W i X] b [`h \ Y f] g _ g `d c g Y X `V m 5 \ \ [Y b Y f U h Y X `W c b h Y b h " `H \ Y `h f U i a U `U g g c W] U h Y X $$ k] h `7 G 5 A `W U b `\ U j Y `` U g h] b [`Y ZZ Y W h g `c b `j] W h] a g ž `U b X `h \ Y d Y f g] g h Y b h b U h i f Y `c Z h \ Y g Y `\ U f a Z ``] a U [Y g `c b `] b Y `W c a d `] W U h Y g f Y W c j Y f m Y Z C f h g "`$

 $\pm 0 \text{ ``][\h'cZ'h\Y'UffYgh'cZ'U'di V`]WgYfj Ubh'`]_Y'K]``]Ua \text{ `5bXfYk} $$ \pm bYg\check{z}'h\Y'Wca a i b]hm']g'cbWY'U[U]b'fYa]bXYX'cZ'h\Y'bYWYgg]hm'cZ j][]`UbWY']b'gUZY[i UfX]b['h\Y'k Y`ZUfY'cZ'ci f'Wk]`XfYb'''5XXfYgg]b[Wk]`X'YI d`c]hUh]cb k \Yh\Yf']h']g'Wca a]hhYX'Vm']bX]j]Xi U`g']b hfi ghYX'dcg]h]cbg'cf'h\fci [\'h\Y'a]gi gY'cZ'hYWkbc`c[m XYa UbXg U'Wc``YWh]j Y'YZZcfh'Zfca 'U``'gYWhcfg'cZ'gcW]Yhm''' <math>\pm$ h g'WYUf.'h\YfY g'bc h]a Y'hc'k UghY']b'h\]g'VUhh`Yž'Ug'h\Y'k Y``!VY]b['cZ'h\Y'a cgh j i `bYfUV`Y'Ua cb['i g'\Ub[g']b'h\Y'VU`UbWY''

8 Y hU]`g	
Cfh	D]bY``Ug'7cibhmž'lG5
EiY``Yb	k Yghcf`UbXcbYk g"Wca
	• k k k "a]gg]b[_]Xg"cf[
	• k k k "XYgYfYh"Wca

6Ygi WXYb G]Y i bg Ui Z. a Y]b!k]Yb bYh