: `cf]XU'7c`X'7UgY'7`cgYX.' > cgYd'A i ffY`` = XYbh]Z]YX'5ZhYf'() 'MYUfg

I bWcj Yf]b['U'XYWUXYg!c`X'a mghYfmž'UXj UbWYX'8B5 hYWXb]ei Yg'`YX'hc'h\Y']XYbh]Z]WUh]cb'cZ'≈gYd\'AiffY``']b D]bY``Ug'7ci bhm"



Gh"DYhYfgVi f[ž: `cf]XUžI G5 ! H\Y ghcfmcZ'ægYd\ F]WkUfX
A i ffY``ž']XYbh]Z]YX a cfY h\Ub Zci f'XYWUXYg'UZhYf'\]g'hfU[]WXYUh\ž
fYZYWhg'fYa Uf_UV`Y'UXj UbWYa Ybhg']b'ZcfYbg]WhYWkbc`c[m'UbX
h\Y'i bk Uj Yf]b['XYX]WUh]cb'cZ']bj Ygh][Uhcfg"A i ffY``ž'k \c'a Yh'\]g
i bh]a Y`m'XYa]gY'k\Yb'\]g'WUf'j YYfYX'cZZ'h\Y'<ck UfX': fUb_`UbX
6f]X[Y'cb'5i[i gh'' ž'%-, \$ž'\UX'VYYb'a]gg]b['Zcf'mYUfgž'k]h\'\]g
fYa U]bg']b]h]U``m'fYWcj YfYX'Vi h'\]g'g_i ```ghfUb[Y`m'gYdUfUhYX
Zfca 'h\Y'fYgh'cZ'\]g'VcXm"

 $\begin{tabular}{ll} ZcfYbg]WhYUa Ya d`cmYX`UXj UbWYX`8B5`hYgh]b[`UbX`ZcfYbg]W [YbYh]W[YbYU`c[m`hc`fYWcbghfi Wh`AiffY``g`]XYbh]hm`Zfca 'h\Yg_Y`YhU``fYa U]bg" \\ \end{tabular}$

 $Ch\ fUa \ g'gW]Ybh]ghg'gi \ WWYggZ \ ``m'YI \ hfUWhYX'8B5'Zfca \ 'h\Y'g_i \ ``UbX'dfcXi \ W'X'U'XYhU]`YX'8B5'dfcZ]`Y'i g]b['h\Y]f'dfcdf]YhUfm : cfYbg]W'; fUXY'; Ybca Y'GYei YbW]b[<math>f$ "'H\]g']bj U`i UV`Y]bZcfa Uh]cb'`YX'hc'bYk']bj Ygh][Uh]j Y'`YUXg'UZhYf'h\Y']b!\ci gY [YbYU`c[m'hYUa 'WcbXi WhYX'Wca dfY\Ybg]j Y'fYgYUfW\'VUgYX'cb h\Y'8B5'XUhU"

5 8]gh]bWh]j Y 5 ddfcUW hc I bgc j YX 7 UgYg

 $H\Y``WUgY``cZ' \not\approx gYd\A``A`i ffY```]g``A`gh'cbY``cZ'a Ubm'VYbYZ]h]b[``Zfcah\Y``UhYgh`UXj UbW'a Ybhg`]b``ZcfYbg]W[YbYU``c[m''`H\Y`Z]Y`X'\Ugau UXY``hfYa YbXci g`ghf]XYgž'YgdYW]U``m`UZhYf`\][\!dfcZ]`Y``WUgYg``]_Yh\Uh`cZ'h\Y'; c`XYb``GhUhY`?]``Yfž'k\]W\``fYg\UdYX`\ck``Wc`X``WUgYg WUb``VY`hUW_`YX''`G]bWY`h\Ybž'Ug`: Ua]`m`HfYY`A U[Un]bY`bchYgžh\Y`dfUWh]WY`cZ']bj Ygh][Uh]j Y`[YbYh]W[YbYU`c[m`f\; £`\Ug`VYYb Ya d`cmYX`hc`gc`j Y`\i bXfYXg`cZ'Wc`X``WUgYg`UWfcgg`h\Y`bUh]cb''$

7ca a i b]hm=a dUWhUbX: i hi fY=b]h]Uh]j Yq

±b``][\hcZ'h\YgY`UXj UbWa Ybhgž'ch\Yf`Wc`X`WUgYg`UfY`gdUf_]b[fYbYk YX`\cdY"'Ch\fUa `\Ug`VYYb`]bghfi a YbhU``]b`U'j Uf]YhmcZfYWbh]ZYbh]Z]WUh]cbgž']bWi X]b[`WUgYg`Ug`X]j YfgY`Ug`U`&\$\$%`BYkAYI]Wc`\ca]W]XY`UbX`U`%-, *`Wc`X`WUgY`]b`:`cf]XU"`H\Ym`ghf]j Y`hccZZYf`Wcgi fY`hc`ZUa]`]Ygž`Ug`\][\`][\hYX`]b`h\Y]f`fYWbh`gi WWYggYg

cih]bYX'Vm'Ch\fUa g'dfYgg'fY`YUgYg"

Cb'A Um'&&ž'&\$&) ž'g][b]Z]WUbh'`Y[]g`Uh]j Y'YZZcfhg'k YfY']bhfcXi WYX hc'Z fh\Yf'gi ddcfh'Wc`X'WUgY']bj Ygh][Uh]cbgž'gi W\'Ug'h\Y'7Uf`U K U`_Yf'5Wh'U]a YX'Uh'Z bX]b['UXj UbWYX'8B5'UbU`mg]g"'H\]g'UWh\cbcfg'h\Y'a Ya cfm'cZ'U'mci b['a i fXYf'j]Wh]a ž'i bXYfgWcf]b['h\Y cb[c]b['W\U``Yb[Yg'cZ'fYgc`j]b['c`XYf'i bgc`j YX'WUgYg"'H\Y k]``]b[bYgg'hc'Udd`m'W'hh]b[!YX[Y'ZcfYbg]WhYW\bc`c[mž'`]_Y'h\Uh gYYb']b'A i ffY`` g'WUgYž'Wcbh]bi Yg'hc'dfca]gY'U'Zi hi fY'k\YfYZYk Yf'ZUa]`]Yg'\Uj Y'hc'YbXi fY'`cb['mYUfg'cZ'i bWYfhU]bhm'

 $\label{lem:hammer} H\Y'k\ cf_'VY]b[\ 'XcbY'hcXUm'k\]h\ 'ZcfYbg]W[\ YbYU`c[\ m']``i\ ghfUhYg\ bch'cb`m'U'f]g]b[\ 'hfYbX']b'Wcg]b[\ 'Wc`X'WUgYg'Vi\ h'U`gc'U'dfcZci bX\ gcW]YhU``Wca a]ha Ybh'hc'' 4 gh]WY'UbX'Wcgi fY''5g'h\Y']bbcj Uh]j Y Udd`]WUh]cbg'cZ'8B5'hYW\bc`c[m'gdfYUXž'h\Y'Wca a i b]hm'k]`` \cdYZ\ ``m'gYY'a Ubm'a cfY'ghcf]Yg'`]_Y'h\Uh'cZ'\&gYd\'A i ffY``'Wca Y hc'fYgc`i h]cb''$

8YhU]`g	
Cfh	Gh" DYhYfgVif[ž: `cf]XUž'lG5
EiY``Yb	• XbUgc`j Yg"Wca
	• ch\fUa "Wca
	• ZUa]`mhfYYa U[Un]bY"Wca

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