## @cWU``GhUf`A UXXcl`<i bghUX`7ca a ]hg`hc 6ck`]b['; fYYb': cchVU```

8]gWcj Yf'h\Y``UhYgh'gdcfhg`Wca a]ha Ybhg`UbX'i dXUhYg`Zfca \u221UW\_gcbj]``Y`\][\'gW\cc`gz'gdch`][\h]b['ghUbXci h'Uh\`YhYg UbX'UW\]Yj Ya Ybhg"



 $H Y ``6YUW ``g] XY ``6UffUW `XUg `` UX ``U ``gc `]X ``g \ ck ]b [ ```Ugh `mY Uf `k ]h \ ``U \\ +! ( ``fY W cfX ž ``W ca dYh]b [ ``Z]Y fW `m`]b ``h \ Y `: ``cf] XU ``< ][ \ ``GW \ cc ```5h \ `Yh] W$ 

## H\Y'HU`Ybh'Dcc`']b': `cf]XU

 $\label{thm:cf} : `cf]XU']g'\_bck b'Ug'U'dck Yf\ci gY']b'\][ \ `gW\cc``ZcchVU``ž Wcbg]ghYbh`m'dfcXi W]b['cj Yf'($'V`i Y!W\]d'fYWfi ]hg'Ubbi U``mž'k ]h\h\]g'mYUf g'WUgg'ZYUhi f]b['U'XcnYb'd`UmYfg']b'h\Y'hcd'%$$ fUb_]b[ gž'Ug'bchYX'Vm'@]j Y'6U```Gdcfhg'''GW\cc`g'`]_Y'5a Yf]WUb < Yf]hU[Y'UbX'\(\frac{1}{4}\); '5WUXYa m'Wcbhf]Vi hY'g][ b]Z]WUbh`m'hc'h\]g'hU`Ybh dcc`ž']bX]WUh]b['U'Vf][ \h'Z hi fY'Zcf: `cf]XU'ZcchVU``''$ 

5a cb['h\Y'hcd'fYWfi]hg'Zcf'h\Y'idWca]b['gYUgcbž'd`UmYfg'`]\_Y'
A]WU\]'8 Ub nm'ci h'cZ: `cf]XU'GhUhY'l b]j Yfg]hm'GW\cc`'UbX'GhUWm; U[Y'Zfca'Gh"'H\caUg'5ei]bUg'UfY'[YbYfUh]b['Vinn"'8 Ubnm']g'UbUh\`YhY'hc'k UhW\'Uh'\*!%'UbX'%+) '`Vgž'k\]`Y'; U[Yž'U'fibb]b['VUW\_ž]g'U`fYUXm'aU\_]b['\YUX`]bYg'k]h\`\]g')!%%ž'&\$\$``Vg'ZfUaY'UbX]adfYgg]j Y'dYfZcfa UbWY'ghUhg"

D`UmYf	GWX c c`	Dcg]h]cb	< Y ][ \ h	K Y][ \h
A ]WU\]	: `cf]XU	5H<	*!%	%+) ``Vg
8 Ubnm	GhUhY			
	lb]jYfg]hm			
	GWX cc`			
GhUWm; U[Y	Gh" H\ca Ug	F6	)!%%	&\$\$``Vg
	5ei]bUg			

Cb'h\Y'fYWfi]h]b['Zfcbhž'd`UmYfg'Zfca 'gW\cc`g'`]\_Y'H\Y'6c``Yg
GW\cc``UbX'7`YUfk UhYf'5WUXYa m'=bhYfbUh]cbU``UfY'U`gc
WUdhi f]b['h\Y'UhhYbh]cb'cZ'a U'cf'Wc``Y[Y'dfc[fUa g"'H\Y'`YjY``cZ
Wca dYh]h]cb'k]h\]b': `cf]XU g'\][\'gW\cc``fUb\_g']g'Z]YfWYž'UbX
i dWca ]b['Yj U`i Uh]cbg']bX]WUhY'U'dfca ]g]b[']bZi I 'cZ'hU`Ybh'h\Uh
k]``\_YYd'gWci hg'Vi gm"

## 91 W]h]b[ '8 Yj Y`cda Ybhg'5 Wfcgg'@cWU`'GWXcc`g

±b 'UXX]h]cb 'hc 'h\ Y 'ZcchVU```Wca a ]ha YbhgžigYj YfU``Uh\`YhYg 'Zfca Ufci bX 'h\ Y 'ghUhY 'UfY 'a U\_]b[ 'k Uj Yg ']b 'h\ Y]f 'gdcfhg" 'H\ Y 6YUW\ g]XY 'j c``YmVU```gWV bY 'k Y`Wca YX 'A c``]Y 'J Ub 8 Yi gY b ž 'k \c Wca a ]hhYX 'hc : `cf]XU 'GhUhY ž 'k \]`Y 'DY mhc b 'H\ ca Ug 'g][ bYX 'cb Zcf 'gc WWY f 'Uh'B cfh\ ': `cf]XU" 'C b 'h\ Y 'VUg\_YhVU```Wci fhgž '5`mggU 8 c b c \ i Y 'Zfca '6UfhfUa 'HfU]`']g '\ YUX]b[ 'hc '9Ugh'Ghfci XgVi f[ ž a U\_]b[ 'V][ 'ghf]XYg ']b '\ Yf 'WUfYYf"

H\Y'UXX]h]cb'cZ'bYk'Ufh]Z]W]U`hi fZ'Uh'cWU`gW\cc`g'`]\_Y': `YhW\Yfž\\UW\_gcbž'UbX'K\]hY']g'Ubch\Yf'YI W]h]b['XYj Y`cda Ybhž'gYh'hcYb\UbW'h\Y'd`Um]b['WcbX]h]cbg'Zcf'ghi XYbh!Uh\`YhYg"'H\]gfYbcj Uh]cb'Wca Yg'Ug'dUfh'cZ'U'VfcUXYf'YZZcfh'UWfcgg'8i j U`7ci bhm'hc']a dfcj Y'h\Y']bZfUghfi Whi fY'Zcf'\][\'gW\cc`'gdcfhg"

 $K ]h\ "U""h\ ]g"hU"Ybh"UbX"Wca a ]ha Ybh"fc""]b["]bž"cbY"WUb"cb"m ]a U[ ]bY"\ck ": `cf]XU"\][ \ "gW\cc"ZcchVU""k ]""g\UdY"h\Y"Zi hi fY `UbXgWUdY"cZ"Wc""Y[ Y"Uh\ "Yh]Wg"]b"h\Y"Wca ]b[ "mYUfg""@Yh g"_YYd"Ub YmY"cb"h\YgY"f]g]b[ "ghUfg"UbX"h\Y"]a dUWh"h\Ym'k ]""gi fY'm'a U_Y"$ 

8 Y hU]`g			
Cfh	IJW_gcbj ]``Yž': @ž'l G5		
EiY``Yb	• k k k "^UW <u>g</u> cbj]``Y"Wca		
	<ul><li>&amp;(+gdcfhg"Wca</li></ul>		
	• k k k "`]j YVU``gdcfhg"Wca		

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