BibYg'@YUj Yg'5HH. '? Um`U' < Uff]gcb GdUf_g'I: 7'G\ck Xck b°

91 d`cfY'h\Y'g][b]Z]WUbWY'cZ'7cWcbi h'7fYY_/, \$'-/g 5a Yf]WUb'Hcd'HYUa 'Ug'5a UbXU'Bi bYg'fYZYWhg'cb'\Yf XYdUfhi fY'UbX'Zi hi fY'a UhWXi dq"



7cWcbi h:7fYY_ž: `cf]XUžI G5 !:H\Y'k cf`X'cZa]I YX'a Ufh]U``Ufhg fA A 5Ł`\UgʻgYYbʻgca Yʻg][b]Z]WUbh'XYj Y`cda YbhgʻUgʻ5a UbXU Bi bYgʻbUj][UhYgʻ\YfʻfYhi fb hc Wca dYh]h]cb UZhYfʻUʻVf]YZ fYh]fYa Ybh'''?bck bʻZcf`\Yfʻdck YfZi ``dfYgYbWYʻ]bʻh\YʻcWhU[cbž Bi bYgʻ\UgʻfYWYbh`mʻg\UfYX']bg][\hgʻ]bhc \\YfʻWUfYYfʻXYW]g]cbgž dUfh]W `Uf`mʻgi ffci bX]b['\YfʻXYdUfhi fYʻZfca '5a Yf]WUbʻHcdʻHYUa fbHHŁ'UbX'h\Y`]a d`]WUh]cbgʻcZ'?Um`Uʻ<Uff]gcbʻ′c]b]b['h\Y

5a Yf]WUb 'Hcd 'HYUa ž'U'hfU]b]b['ZUW]`]hm'`cWUhYX']b'7cWcbi h'7fYY_ž: `cf]XUž'\Ug'g\UdYX'h\Y'WUfYYfg'cZ'a Ubm'hcd'I: 7'Z][\hYfgž]bWi X]b['Bi bYg'\YfgY`Z''5ZhYf'Ub']a dfYgg]j Y'Y][\h!mYUf'hYbi fYk]h\'5HHž'Bi bYg'`YZh']b'YUf`m'&\$&&'k]h\ci h']b]h]U``m'fYj YU`]b['\Yf

fYUgcbg"'<ck Yj Yfžg\Y'\Ug'bck 'WUf]Z]YX'h\Uh'?Um`U'<Uff]gcb g
Ybhfm']bhc'5HH'd`UmYX'U'g][b]Z]WUbh'fc`Y']b'\Yf'XYdUfhi fY"'Bi bYg
YI dfYggYX'WcbWYfbg'UVci h'hfU]b]b['U`cb[g]XY'<Uff]gcbž'k \cgY
YbYf[]Yg 'g\Y'ZY`h'X]X'bch'a UhW\'\Yf'ck bž'Wca d`]WUh]b['\Yf
hfU]b]b['Ybj]fcba Ybh"'H\]g'g]hi Uh]cb'`YZh'Bi bYg'WfUj]b['U'`]hh'Y
df]j UhY'gdUWY 'hc'ZcW'g'cb'\Yf'dfYdUfUh]cb'\Ofc': cchVU``
BYhk cf_Q'

5 BYk 9fU Zcf K ca Yb g A A 5

: Ugh Zcfk UfX hc I: 7 " %* ž'k \YfY ? Um`U < Uff]gcb a UXY \YUX`]bYg Vmk]bb]b[h\Y k ca Yb g VUbhUa k Y][\hih]h`Y 'UZhYf XYZYUh]b[in the standard of the s

Bi bYgžk \c \\UX'dfYj]ci g`m'WcbZ]fa YX'\Yf'fYhi fb'Zfca
fYh]fYa Ybhž']bX]WWhYX'h\Uh'h\Y'WW`a bYgg'cZ'\Yf'W\]`XfYb'\UX
U``ck YX'\Yf'hc fYZcW' g'cb'Z][\h]b["'<Yf'd`Ub']g'hc'hfU]b'Z ``!h]a Y
UbX'YmY'U'Wca YVUW_``]_Y`m']b'Bcj Ya VYf'cf'8YWYa VYf'cZ'h\]g
mYUf"'I: 7:79C'8UbU'K\]hY'\Ug'a Ybh]cbYX'h\Uh'Bi bYg'a i gh'fY!
YbhYf'h\Y'dfca ch]cb g'Xfi ['hYgh]b['dcc``VYZcfY'Ubm'Z][\h'XUhYg
WUb'VY'WcbZ]fa YX"'8Ygd]hY'h\Y'i bWYfhU]bhm'gi ffci bX]b['h\Y]f
Zi hi fY'Z][\hž'Bi bYg'\Ug'YI dfYggYX'YI W]hYa Ybh'UVci h'h\Y
a UhW\i dž'UggYfh]b['h\Uh'ZUW]b['W\U``Yb[Yfg'`]_Y'<Uff]gcb']g
Wfi W]U``Zcf'\Yf'hc'Vf]b['ci h'\Yf'VYgh'dYfZcfa UbW''\ODfc': cchVU``
BYhk cf_O'

K \ Uh g B Y I h Zcf B i b Y g Ub X < Uff]gcb3

 $\label{thm:condition} $$H\Y'ci\ hWca\ Y'cZ'h\YgY'fYWYbh'XYj\ Y`cda\ Ybhg'fU]gYg'a\ Ubm$$ ei\ Ygh]cbg'UVci\ h'h\Y'Zi\ hi\ fY'cZ'k\ ca\ Yb\ g'A\ A\ 5'''K\]h\'Bi\ bYg'YU[\ Yf\ hc 'Wca\ dYhY'U[\ U]bgh'< Uff]gcbž']h'gYhg'h\Y'ghU[\ Y'Zcf'U'h\f]``]b[$$VUhh`Y'h\Uh'ZUbg'\Uj\Y'VYYb'YU[\ Yf`m'YI\ dYWh]b[\ ''5`h\ci\[\ 'Bi\ bYg\ UW_bck\ `YX[\ YX'h\Y'W\U``Yb[\ Yg'dcgYX'Vm'hfU]b]b[\ ']b'h\Y'gUa\ Y'[\ ma']$$$

 $Ug' < Uff]gcb\check{z}'g \setminus Y'fYa \ U]bg' \setminus cdYZ \ ``h \setminus Uh'U'Z][\ \setminus h'k \]```a \ UhYf]U`]nY'Vm \\ h \setminus Y'YbX'cZ'h \setminus Y'mYUf''$

H\]g'dchYbh]U``g\ck Xck b'bch'cb`m'\][\`][\hg'h\Y'XmbUa]WcZ'hk c Z]YfW' Wca dYh]hcfg'Vi h'U`gc']``i ghfUhYg'\ck 'dYfgcbU``UbX dfcZYgg]cbU``Ybj]fcba Ybhg'WUb']a dUWh'Uh\`YhYg 'WUfYYfg"'5g'Vch\Z][\hYfg'dfYdUfY'Zcf'h\Y]f'bYI h'ghYdgž'h\Y'A A 5'Wca a i b]hm']g Vi nn]b['k]h\`qdYW'`Uh]cb'UVci h'k\Uh`]Yg'U\YUX"

8 YhU]`g	
Cfh	7cWcbi h'7fYY_ž': `cf]XUž'l G5
EiY``Yb	k k k "dfcZcchVU``bYhk cf_"Wca
	• a a U^i b_]Y"i gUhcXUm"Wca

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