: `cf]XU'; Uhcfg': UWY'8i _Y']b'9d]W&\$&) G97#577'G\ck Xck b°

9| d`cfY'h\Y'i dWca]b['&\$&)'577!G97'7\U``Yb[Y'ZYUhi f]b[: `cf]XU'; Uhcfg'Uh'8i _Yž'\][\`][\h]b['hYUa 'W\Ub[Yg'UbX'_Ym a UhW\i dg"



; U]bYgj]``Yž: `cf]XUžI G5 !! 9 | W]hYa Ybhi]g'VfYk]b[']b'h\Y Gi bg\]bY'GhUhY'Ug'h\Y: `cf]XU'; Uhcfg'dfYdUfY'hc'hU_Y'cb'h\Y 8 i _Y'6`i Y'8Yj]`g']b'U'\][\`m'Ubh]W]dUhYX'a UhW\i d'Xi f]b['h\Y &\$\&\) '577#G97'7\U``Yb[Y"'H\Y'[Ua Y']g'gYh'hc'i bZc`X'Uh'h\Y']Wcb]W 7Ua Yfcb'\DXccf'GhUX]i a ž'U'hYa d`Y'cZ'Wc``Y[Y'VUg_YhVU``ž'k\YfY\]ghcfm'UbX'Z]YfWY'Wca dYh]h]cb'Wc``]XY"

H\]g'WUg\`a Uf_g'h\Y'Y][\h\`a YYh]b['VYhk YYb'h\Y'hk c'ghcf]YX dfc[fUa gž'k]h\`8i _Y'`YUX]b['h\Y'gYf]Yg')!&"'H\Y'; Uhcfg'UbX'6`i Y 8Yj]`g'\Uj Y'[cbY'\YUX!hc!\YUX'g]l'h]a Yg'g]bWY'%-, +ž'k]h\
: `cf]XU'WU]a]b['j]Whcfm'cb`m'cbWY''' =bhYfYgh]b[`mž'h\Y]f'`Ugh'c\ZZ]W]U`a YYh]b['Uh'YUWX'ch\Yfg'\ca Y'Wci fh'XUhYg'VUW_'hc'h\Y %--,!%---'gYUgcbž'k\Yb'8i_Y'gYW'fYX'U'XYW]g]jY'%%*!, *'k]b'Uh

7\Ub[Ygcbh\YFcghYf

5g'h\Y'hYUa g'[YUf'i d'Zcf'h\]g'gYUgcbžVch\'UfY'i bXYf[c]b[g][b]Z]WUbh'W\Ub[Yg'': `cf]XU'\Ug'VYYb'\]h'\UfX'Vm'XYdUfhi fYgž
`cg]b['_Ym'[i UfXg'`]_Y'K U`hYf'7`Umhcb'**"'UbX'5`]*U\'A Ufh]b"
<ck Yj Yfž'h\Ym'\Uj Y'a UXY'gca Y'ghfUhY[]Wa cj Yg'hc'Vc`ghYf'h\Y]f
`]bYi dž']bWi X]b['h\Y'UXX]h]cb'cZ'hfUbgZYfg'6cc[]Y': `UbX'Zfca
5f_UbgUg'UbX'LUj]Ub'@YY'Zfca 'Df]bW'hcbž'd`i g'Zci f!ghUf
ZfYg\a Yb'7>*b[fUa 'UbX'5`YI '@cmXž'U]a YX'Uh'_YYd]b['h\Y'gei UXWca dYh]h]j Y'': `cf]XU'fYW'bh'm'W'`YVfUhYX'U'hf]i a d\Ubh'gYUgcbž
Wca]b['cZZ'h\Y]f'h\]fX'bUh]cbU`'W\Ua d]cbg\]d'k]bž'k\]W\'h\Ym
gYW' fYX'UZhYf'U'h\f]``]b['Wca YVUW_'U[U]bgh'<ci ghcb"

8i_Yžcb'h\Y'ch\Yf'\UbXž'k]```U`gc'ZYY``h\Y']a dUWhcZ'd`UmYfYI]hgž Ug'h\Ym'Ubh]W]dUhY'h\Y'XYdUfhi fY'cZ'ghUf'd`UmYfg'7ccdYf': `U[[UbX'?cb'?bi YddY``hc'h\Y'B65'8fUZh"'Hc'Z]```h\YgY'[Udgž'h\Y'6`i Y8Yj]`g'UfY'Vf]b[]b[']b'Ub']a dfYgg]j Y'fYWfi]h]b['WUgg'`YX'Vm7Ua Yfcb'6ccnYfž'fYWc[b]nYX'Ug'h\Y'bUh]cb g'hcd'\][\'gW\cc`d`UmYfž'U`cb['k]h\'Z]j Y!ghUf'dfcgdYWhg'B]_c`Ug'?\Ua Yb]U'UbX8Ua Y'GUff"'8Ygd]hY'h\YgY'W\Ub[Ygž'Vch\'hYUa g'VcUgh'ghfcb[fYhifb]b['hU`Ybhž'k]h\':`cf]XU'Vf]b[]b['VUW_'Z]j Y'cZ'h\Y]f'hcd'%\$gWcfYfg'UbX'8i_Y'fYhU]b]b['h\fYY'Zfca'h\Y]f'hcd'b]bY"

H\Y`Ubh]W]dUh]cb`gi ffci bX]b[`h\]g`a YYh]b[`]g`\Y][\hYbYX`Vm`h\Y gi WW\ggZi ``gYUgcbg`Vch\`hYUa g`^i gh`k fUddYX`i d"`8i _Y`a UXY`U ghfcb[`fi b`hc`h\Y`:]bU``: ci fž`k\]`Y`: `cf]XU`Z]b]g\YX`ghfcb[`Ug`h\YXYZYbX]b[`bUh]cbU``W\Ua d]cbg"`H\]g`W\U``Yb[Y`]g`dUfh`cZ`U VfcUXYf`577#G97`Yj Ybh``]bYi d`h\Uh`dfca]gYg`hc`XY`]j Yf`YI W]h]b[VUg_YhVU``ž`ZYUhi f]b[`a UhW\i dg`gi W\`Ug`Bcfh\`7Ufc`]bU'j]g]h]b[?Ybhi W_m`UbX`5f_UbgUg`ZUW]b[`@ci]gj]``Y"

5g:ZUbg:YU[Yf`m:UkU]h:h\]g:WUg\cZ'h]hUbgž'h\Y:Wcaaib]hm:]g Vinn]b['k]h\'dfYX]Wh]cbg:UbX:\cdYg":K]``: `cf]XU:VY:UV`Y:hc cjYfWcaY'dUgh:W\U``Yb[Yg:U[U]bgh:8i_Y:UbX:aU]bhU]b:h\Y]f $\label{thm:condition} WA Ua d]cbg\] d`a ca Ybhi a 3`Cf`k]```8i _Y``Yj YfU[Y`h\Y]f \\ WY`YVfUhYX`fYWfi]h]b[`dfck Ygg`hc`hcdd`Y`h\Y`; Uhcfg3`Cb`m`h]a Y \\ k]```hY``ž`UbX`h\Y`ghU_Yg`\Uj Y`bYj Yf`VYYb`\][\Yf"$

: cf'h\Y'Wca d`YhY'gWXYXi `Y'cZ'h\Y'577#G97'7\U``Yb[Yžj]g]h` GUhi fXUm'8ck b'Gci h\"'-Z'mci fY'`cc_]b['hc'X]jY'XYYdYf']bhc k\m'h\]g'a UhWXi d']g'd]j chU`ž'WXYW_'ci h'<U]`': `cf]XU'<U]`'UbX' &(+Gdcfhg'Zcf'a cfY']bg][\hg°

8 YhU]`g	
Cfh	; U]bYgj]``Yž': `cf]XUž'I G5
EiY``Yb	• \U]`Z`cf]XU\U]`"Wca
	• &(+gdcfhg"Wca
	• k k k "gUhi fXUmXck bgci h\"Wca

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