9Vfc: ccXg'l bj Y]`g'5a V]h]ci g'&\$&) !&\$&+ GhfUhY[]W; cU`g°

9Vfc:ccXgii bj Y]`g`]hg`ghfUhY[]Wd`Ub`Zcf`&\$&)!&\$&+ž ZcWig]b[`cb`Z]j Y`_Ym`cVYWh]j Yg`hc`Yb\UbWiigYf`YIdYf]YbWi UbX`gYfj]WYg"



9Vfcž'9gdUÍ U'!'K]h\'h\Y']bhYfbYh'VYWca]b['gi W\'U'dYfj Ug]j Y
dUfh'cZ'ci f'XU]\'m'`]j Ygž'i bXYfghUbX]b['\ck 'ci f']bhYfUWh]cbg'UfY
a UbU[YX'cb`]bY']g'Wfi W]U`"'5 'fYWYbh'fYdcfh'Vm'
fYj]ghU]bZcfYhU]\'"Wca 'dfcj]XYg'j U`i UV`Y']bg][\hg']bhc'\ck
k YVg]hYg'i h]\`]nY'Wcc_]Yg'hc'Yb\UbWY'i gYf'YI dYf]YbWYž'a U_]b[']h
YUg]Yf'Zcf'i g'hc'UWWYgg'gYfj]WYg'hU]\`cfYX'hc'ci f'dfYZYfYbWYg"'6i h
k \Uh'YI UWh'm'XcYg'h\]g'YbhU]\`3

fi bb]b['ga cch\`m": cf'Yl Ua d`Yž'gca Y'Wcc_]Yg'fYa Ya VYf'ci f g\cdd]b['dfYZYfYbWYg k\Uhg'bch'hc'`cj Y'UVci h'h\Uh3

$HYFcYCZ7cc_]Yg$

 $H\Y'fYdcfh'VfYU_g'Xckb'Wcc_]Yg']bhc'j Uf]ci g'hmdYg'VUgYX'cbh\Y]f'``]ZYgdUb'UbX'di fdcgY'''< YfY g'U'ei]W_'fi bXckb.$

- GYgg]cb '7cc_]Yg. 'H\YgY 'YI d]fY 'cbW' 'mci 'WcgY 'mci f Vfck gYf"
- DYfg]ghYbh:7cc_]Yg. "H\YgY "gh]W_"Ufci bX "i bh] "h\Y]f
 difdcgY "]g 'Z "Z] "YX "cf"UfY "XY "YhYX "a Ubi U" "m"
- DYfZcfa UbWY '7cc_]Yg. 'H\YgY 'fYa Ya VYf'mci f dfYZYfYbWYgž'Yb\UbW]b['Wcbj Yb]YbW'"
- ; Yc`cWUh]cb'7cc_]Yg.'H\Ym'\Y`d']b'XYhYfa]b]b['mcif Ubcbma cig'`cWUh]cb"
- 5bU`mh]WU`'7cc_]Yg. H\YgY'[Uh\Yf'XUhU'UVci hii gYf VY\Ui]cf'k\]`Y'Vfck g]b["
- 6Y\Uj]cfU``5XjYfh]g]b['7cc_]Yg. 'H\YgY'hfUW_'UX]bhYfUWh]cb'hc']bWfYUgY'fY`YjUbW''

BchYkcfh\mi]g'h\Uhigca Y'Wcc_]Yg'U``ck 'UXj Yfh]gYfg'hc'hfUW_'i gYfg UWfcgg'X]ZZYfYbh'g]hYgž'hU]`cf]b['h\Y]f'UXj Yfh]gYa Ybhg'VUgYX'cb df]cf'Vfckg]b['\]ghcfm"'H\]g'dYfgcbU`]nYX'UddfcUWX'WUb'a U_Y cb`]bY'g\cdd]b['ZYY``gYUa `Yggž'Vi h']h'XcYg'Wca Y'k]h\']hg'ck b WcbWYfbg'UVci h'df]j UWm'UbX'XUhU'i gU[Y"

GhUm]b[=bZcfa YX cb Df]j UWm

 $\label{thm:condition} 5\cb[g]XY\chingY\ching[XY\ching] $$ \cb[g]XY\ching] $$ \cclip (\clip XY\ching) $$ \cclip (\clip XY\ching) $$ \cclip (\ching XY\ching) $$ \cclip (\$

#h g`]bhYfYgh]b['\ck 'ci f'X][]hU`'Zcchdf]bh']bWfYUgYg'Ug'k YVg]hYg
UbX'Uddg'i gY'hfUW_]b['a Yh\cXg'bch'' qh'`]a]hYX'hc'Wcc_]Yg"'H\Y'

: H7 g'cj Yfj]Yk '\][\`][\hg'h\Uh'hfUW_]b['WUb'U`gc']bj c`j Y'XYj]WY Z]b[Yfdf]bh]b['UbX'i b]ei Y']XYbh]Z]Yfg'cb'ga Ufhd\cbYg"'H\]g YI dUbg]j Y'UffUm'cZ'hfUW_]b['hYW\b]ei Yg'fU]gYg'ei Ygh]cbg'UVci h\ck 'a i W\']bZcfa Uh]cb'k Y fY']bUXj YfhYbh`m'g\Uf]b["

9a dck Yf]b[I gYfg

Hc fY[U]b U a YUgi fY c Z Wcbhfc ži gYfg WUb UXcdh ghf UhY []Yg hc a UbU[Y h\Y]f cb]bY dfYgYb W "FY[i `Uf`m XY `Yh]b[`Vfck g]b[\]ghcfm Ub X Wcc_]Yg gYYa g]_Y U ga U Y ZZcfh k]h\ h\Y dchYbh]U hc [fYUh m]a d U h df]j U m "5 X X]h]cb U m a Ubm V fck gYfg c ZZYf ZY Uhi fYg]_Y df]j UhY V fck g]b[a c X Yg Ub X YI h Y bg]j Y df]j U m gYhh]b [g "A U_]b [i gY c Z h\YgY hcc `g WUb _YYd Zf]j c `ci g X UhU hf U w_]b [i Uh Y Um"

A cfYcj Yfž'fYj]Yk]b['Wcc_]Y'dc`]W]Yg'UbX'i bXYfghUbX]b['\ck Wca dUb]Yg'i gY'ci f'XUhU']g'bch'i gh'U'f][\h/']h g'U'ga Ufh'a cj Y'Zcf UbmcbY'k Ubh]b['hc'bUj][UhY'h\Y'k YV'gYW' fY`m"'6Y]b[']bZcfa YX U``ck g'i g'hc'a U_Y'VYhhYf'XYW]g]cbgž'k \Yh\Yf'h\Uh'a YUbg UWWYdh]b['Wcc_]Yg'Zcf'dYfgcbU`]nYX'WcbhYbh'cf'W\ccg]b['hc'cdh! ci h'cZ'hfUW_]b["

5g*k Y`_YYd`ci fgY`j Yg`]bZcfa YX`UVci h`h\Y`hYW\`VY\]bX`ci f gWfYYbgž``Yhg`_YYd`h\Y`Wcbj YfgUh]cb`UVci h`cb`]bY`df]j UWm`U`]j Y" H\YfY g`U`k Umg`gca Yh\]b['hc`VY`gU]X`Zcf`_bck `YX[Yž`YgdYW]U``m k \Yb`bUj][Uh]b['h\Y`j Ugh`X][]hU```UbXgWUdY°

8 Y hU]`g	
Cfh	9Vfcž [·] 9gdUĺ U
Ei Y``Yb	• k k k "fYj]ghU]bZcfYhU]`"Wca
	• k k k "ZhW[cj
	• Wcbgi a Yf"ZhW'[cj

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