DUbh\Yfg'Hf]i a d\'5[U]b.'GhUb`Ym'7i d ; `cfm'5a]X'7cbhfcj Yfgm°

H\Y: `cf]XU'DUbh\Yfg'gYW fY'h\Y]f'gYWcbX'GhUb`Ym'7i d'h]h`Yž XYZYUh]b['h\Y'9Xa cbhcb'C]`Yfgž'k]h\'GUa '6YbbYhh'YUfb]b[A J D'\cbcfg"



cfh'@Ui XYfXU`Y`6YUW ž: cfh'@Ui XYfXU`Yž: `cf]XUž'I G5!
H\Y: `cf]XU'DUbh\Yfg'\Uj Y'cbW''U[U]b'a UXY'\]ghcfmž'g\ck WUg]b[
fYg]`]YbW''`]_Y'bYj Yf'VYZcfY']b'h\Y]f''ci fbYm'h\fci [\'h\Y'B<@
d`UmcZZg"'FYWbh`m'W]bW\]b['h\Y'GhUb`Ym'7i d'Zcf'h\Y'gYWcbX
WcbgYW'h]j Y'mYUfž'h\Y'DUbh\Yfg'X]gd`UmYX'Ub']bgd]f]b[''Yj Y`'cZ
XYhYfa]bUh]cbž'Yj Yb'U[U]bgh'Zcfa]XUV'Y'Wca dYh]h]cb'`]_Y'h\Y
9Xa cbhcb'C]`Yfg'UbX'h\Y]f'ghUf'd`UmYfž'7cbbcf'A W8Uj]X"'H\Y
C]`Yfg'h\fyk 'Yj Yfmh\]b['h\Ym\UX']bhc'h\Y'Z]bU`gž'i h]`]n]b['dck Yfd`Umg'UbX'*!cb!) 'ghfUhY[]Yg"'MYhž'h\Y'DUbh\Yfg 'XYZYbgY'Ya Yf[YXibgWUh\YXž'dfcj]b[']hg'a Yhh`Y'U[U]bgh'gi W\'\][\!dfYggi fY'hUWh]Wg"
5g'A W8Uj]X'\]a gY`ZfYa Uf_YXž' BcVcXm'ei]hž'bcVcXm'h\fyk 'h\Yh\Yhck Y``]bž 'WUdhi f]b['h\Y'gd]f]h'cZ'dYfgYj YfUbWY'h\Uh'XYZ]bYX'h\]g
W\Ua d]cbg\]d'fi b'A chcfWmWY'Gdcfhg'fYdcfhg"

H\]grdUghrgYf]YgrgUk rh\YrDUbh\Yfgrk]brXYW]g]j Y`mrk]h\rUrZ]bU` [Ua YrgWcfYrcZr)!%žYbX]b[rh\YrgYf]YgrUhr(!&"rCbYrcZrh\YrghUbXci h dYfZcfa UbWYgrVY`cb[YXrhcrGUa r6YbbYhhžrk \crbchrcb`mr`YXrh\Y d`UmcZZgrk]h\rUbr]a dfYgg]j Yr%) r[cU`grVi hrU`gcrVYWUa Yrh\YrZ]fgh d`UmYfr]brZfUbW\]gYr\]ghcfmrhcrgbU[rh\Yr7cbbrGa mh\YrHfcd\mrUg h\Yrd`UmcZZrA J D"r<]grUW\]Yj Ya Ybhr]grfYa Uf_UV`YžYgdYW]U``mrUg 7cbbcfrA W8Uj]Xrhcc_rh\YrgUa YrUWWc`UXYr'i ghrUrmYUfrdf]cfž XYgd]hYr\]grhYUa gr`cggrFUj YbgrK]fYrXYhU]`g"

7\Uad]cbg\]d 7Y`YVfUh]cbg'UbX'GWfih]bm

H\Y'YI WjhYa Ybh'gi ffci bX]b['h\Y'DUbh\Yfg'j]Whcfmi]g'dU'dUV'Yž k]h\'U'dUfUXY'd`UbbYX'U`cb[': cfh'@Ui XYfXU`Y'6YUW\'hc'WY`YVfUhYh\Y]f'UW\]Yj Ya Ybh''MYhž'h\]g''cmci g'a ca Ybh']g'g\UXck YX'Vm i dWca]b['X]gW'gg]cbg'cZ'dchYbh]U`']bj Ygh][Uh]cbg']bhc'h\Y WjfW a ghUbW'g'cZ'h\Y]f'fYW'bh'W\Ua d]cbg\]d'k]b'''K\]'Y'h\Y dfcgdYWh'cZ'gWfi h]bm'`cca gž']h'XcYgb h'X]a]b]g\'h\Y'gi WW'gg XYf]j YX'Zfca 'h\Y'hYUa g'Wc``YWh]j Y'gd]f]h'UbX'gc`]X'hYUa k cf_"H\Y]f'UV]`]hm'hc'UXUdh'hc'UbX'hUW_`Y'W\U`Yb[Yg'\YUX!cb'\Ug]bXYYX'VYYb'h\Y'VYXfcW_'cZ'h\Y]f'gi WW'gg'h\fci [\ci h'h\Y d`UmcZZg'A chcfWhWY'Gdcfhg'bchYg"

 $\label{thm:bayon} H\Y'GhUb`Ym'7i\ dž'h\Y'c`XYgh'hfcd\m']b'Bcfh\'5a\ Yf]WUb\ dfcZYgg]cbU``gdcfhgž'fYdfYgYbhg'h\Y'd]bbUWY'cZ'UW\]Yj\Ya\Ybh']b\ \cW_Ymž'Uk\UfXYX'Ubbi\U``m'hc'h\Y'k\]bbYf'cZ'h\Y'B<@g'd`Umc\ZZg''\G]b\W']hg']b\W'dh]cb']b'\%, -'\ž'h\Y'7i\d'\Ug'VYYb'U'[\c`X'ghUbXUfXž\k]h\'h\Y'DUbh\Yfg'hf]i\a\\h\]g'mYUf'Zi\fh\Yf'UXX]b[\'hc']hg'f]\W\hUdYghfm'cZ'\]ghcfm''\5g'\]ghcfm'\Ug'g\ck\bž'h\Y'\Wca\dYh]h]cb\fYa\U]bg'Z]Yf\W'/h\Y'A\cbhfYU`'7\UbUX]Ybg'gh]```\c`X'h\Y'fY\\cfX'Zcf\h\Y'a\cgh'GhUb`Ym'7i\d'h]h'\Yg'Uh'\&'\ž'k\]Y'h\Y'DUbh\Yfg'\\cbh]bi\Y'hc\WJfj\Yci\h\Y'[\U\m']b'h\Y'`YU[\i\Y'\mathred{9GDB}\\][\\`]\\hq''\$

@cc_]b[5\YUX

5g'h\Y'DUbh\Yfg'VUg_']b'h\Y'[`cfm'cZ'h\Y]f'\UfX!Zci [\h'j]Whcfmž h\Ym'UfY'U`gc'ZUWYX'k]h\'Ub'i bWYfhU]b'cZZgYUgcb'U\YUX"'K]h\ GUa'6YbbYhh'VYWca]b['Ub'i bfYghf]WhYX'ZfYY'U[Ybh'h\]g'gi a a Yfž ZUbg'YU[Yf`m'UkU]h'bYkg'UVci h'\]g'Zi hi fY'UbX'k\Uh']h'k]``a YUb Zcf'h\Y'hYUa g'Wcadcg]h]cb'acj]b['Zcfk UfX"'H\Y'fYg]`]YbWYg\ck WUgYX'Vm'h\Y'DUbh\Yfg'Xif]b['h\Y'd`UmcZZg'dcg]h]cbg'h\Yabch'f gh'Ug'W\Uad]cbgž'Vih'Ug'gmaVc`g'cZ'ghfYb[h\'UbXdYfgYjYfUbWY']b'h\Y'kcf`X'cZ'gdcfhg"'+h'k]``'WYfhU]b`m'VY]bhYfYgh]b['hc'gYY'\ck'h\Ym'bUj][UhY'h\Y'idWca]b['W\U``Yb[Ygk\]'Y'gh]``'WY`YVfUh]b['h\Y]f'fYaUf_UV`Y'hf]iad\"

8 YhU]`g	
Cfh	: cfh'@Ui XYfXU`Y'6YUW\ž': cfh'@Ui XYfXU`Yž
	: `cf]XUž'l G5
EiY``Yb	a chcfWmWYgdcfhg"bYh
	fUj Ybgk]fY"i gUhcXUm"Wca
	• k k k "Ygdb"Wca

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