

A cbfcY'7ci bhm'ZUWYg``UVcf'g\cfhU[Yg'Ug'=79'XYhU]bg k cf_YfgUa]X'cb[c]b[']a a][fUh]cb'dc`]Wm'W\Ub[Yg]a dUWh]b['`cWU``Vi q]bYqqYq"



A cbfcY'7ci bhmž: `cf]XUž'I G5'! \Rightarrow 'U'ghf]_]b[']bghUbW'cZ'h\Y YZZYWhg'cZ'fYWYbh']a a][fUh]cb'fU]Xgž'J]bWYbh'GWUfX]bUž'U'fccZ]b[Vi g]bYgg'ck bYf']b': `cf]XU g'@ck Yf'? Ymgž'Zci bX'\]a gY`Z'[fUdd`]b[k]h\'Ub'Ya ch]cbU`i d\YUj U``UZhYf'g]l 'cZ'\]g'Ya d`cmYYg'k YfY XYhU]bYX'Vm'=79'k \]`Y'cb'h\Y'^cV'''GWUfX]bUž'k \c'\UX'dfYj]ci g`m gi ddcfhYX'8cbU`X'Hfi a d g']a a][fUh]cb'dc`]W]Ygž'XYgWf]VYX'\]g g\cW_'UbX'X]ghfYgg'cj Yf'h\Y'g]hi Uh]cbž'bch]b['h\Uh'\Y'\UX'Zcfa YX [Ybi]bY'Zf]YbXg\]dg'k]h\'h\YgY'k cf_Yfg''' \Rightarrow g'XYj UghUh]b[\check{z} '\Y fYa Uf_YXž'fYZYWh]b['cb'h\Y'`cgg'cZ'U'h\]fX'cZ'\]g'k cf_ZcfWY']b'Ub UfYU'U`fYUXm'ghfi [[`]b['k]h\'`UVcf'g\cfhU[Yg''

H\Y i b Zcfhi b UhY Yj Ybhi b Zc`XYX cb A Um & + ž k \Yb h\Y A cbfcY 7 ci b hm G\Yf]ZZ g C ZZ]WY Ugg]ghY X = 7 9]b hfUbgdcfh]b [h\Y k cf_Yfg hc U `c WU` XYhYbh]cb ZUW]]hmž XYgd]hY WU]a g h\Uh h\Y XYhU]bYX]bX]j]Xi U`g`\UX'j U`]X k cf_ dYfa]hg UbX cb [c]b [Ugmi a Udd`]WUh]cbg" H\Y]f UhhcfbYmž FY[]`i W]U Ga]h\ž WcbZ]fa YX h\Uh h\Ym`\Uj Y bc Wf]a]bU` fY WcfXg Y]h\Yf]b B]WUfU[i U cf h\Y I "G" H\]g cdYfUh]cb k Ug fYdcfhYX`mdUfhcZ'U VfcUXYf WfUW_Xck b Xf]j Yb VmX]fYWh]j Yg Zfca h\Y K \]hY < ci gY U]a YX Uh hUf[Yh]b[i bXcW a YbhYX]a a][fUbhg" 5g WcbW fbg f]gYž]h VY[g h\Y ei Ygh]cb. k \Uh XcYg h\]g a YUb Zcf Vi g]bYggYg UbX Wca a i b]h]Yg fY`]Ubh cb]a a][fUbh" UVcf3

HYF] ddY 9ZZY Whg cZ = a a][fUh] cbFU] Xg

H\Y'dfYX]WUa Ybh'ZUWYX'Vm'GWUfX]bU']g'ZUf'Zfca ']gc`UhYX"'\delta gh
XUmg'`UhYfž'cb'A Um'&- ž'=79'XYhU]bYX'hYb'Wcbghfi Wh]cb'k cf_Yfg'Uh
U'df]j UhY'g]hY']b'BYk dcfhž'JYfa cbh"'H\]g'cdYfUh]cbž'WcbZ]fa YX'Vm
h\Y'JYfa cbh'5gm`i a '5gg]ghUbWY'Dfc'YWhž'\][\`][\hYX'h\Y'[fUj]hm
cZ'cb[c]b[']a a][fUh]cb'YbZcfWYa Ybh'Ug'Wcbghfi Wh]cb'Z]fa g
Wcbh]bi Y'hc'ZYY`'h\Y'dfYggi fY"'\delta'h\]g']bghUbWYž'Z]j Y'cZ'h\Y
XYhU]bYYg'k YfY'Zci bX'hc'dcggYgg'dfccZ'cZ'Y[U`'ghUhi gž'k\]`Y'h\Y

H\YgY']bW]XYbhg'fYgcbUhY'XYYd`m'UWfcgg'h\Y'`UVcf'a Uf_Yh''FYWbh ghUh]gh]Wg']bX]WUhY'h\Uh'Uddfcl]a UhY`m'cbY!h\]fX'cZ'Xca Ygh]W k cf_Yfg']b'h\Y'l "G"'UfY']a a][fUbhgž'a Ubm'cZ'k \ca 'fYa U]b i bXcW'a YbhYX"'5]!Yb'Dccž'dfYg]XYbh'cZ'h\Y'BUh]cbU`'8ca Ygh]W K cf_Yfg'5``]UbW'ž'dc]bhYX'ci h'h\Uh'ZYUf'Ua cb[']a a][fUbh k cf_Yfg'Wb'g'ck 'Xck b'Ybh]fY'YWcbca]WgYWhcfg"'\dot\]bXi ghf]Yg gi W\'Ug'\YU`h\'WUfYž\cgd]hU`]hmž'UbX'Wcbghfi Wh]cbž'k \]W\ hmd]\W'`m'cZZYf'`ck Yf'k U[Yg'UbX'ZYk Yf'f][\hgž'h\Y'`UVcf'Wf]g]g']g dUfh]W'`Uf`m'UW'hY"

K]h\ 'd]j chU``ghUhYg``]_Y`7U`]Zcfb]UžBYk 'Mcf_ž': `cf]XUž'UbX'HYI Ug\c`X]b['g][b]Z]WUbh'dcdi `Uh]cbg'cZ'i bXcW' a YbhYX'k cf_Yfgž'h\Y\ WcbgYei YbWYg'cZ'ZYXYfU``]a a][fUh]cb'dc`]W]Yg'Wci `X'dfYgYbh\W\U``Yb[Yg"'H\Y'5[f]W' `hi fY'gYWhcfž'Zcf'YI Ua d`Yž'fY`]Yg'\YUj]`m'cbi bXcW' a YbhYX``UVcfž'k]h\ 'Ygh]a UhYg'gi [[Ygh]b['h\Uh'() ı 'cZ

U[f]W `hi fY k cf_Yfg]b h\ Y I "G" ZU```]bhc h\]g WUhY [cfm" K]h\]bWfYUg]b['Yb ZcfW a Ybh UWh]cbgž Vi g]b Ygg Yg a Um ghfi [[`Y hc Z]`` Uj U]`UV`Y dcg]h]cbgž]a dUWh]b['Yj Yfmh\]b['Zfca 'dfcXi Wh]cb hc Wcbgi a Yfdf]WYg"

5 6fcUXYf = a dUWh

H\Y'Ya ch]cbU``hc```cb']bX]j]Xi U`g'`]_Y'GWUfX]bU']g'dU`dUV`Yž'Vi h h\Y'YWcbca]WfUa]Z]WUh]cbg'Wci `X'VY'Yj Yb'k]XYf"'8 Ub]Y``7cghUZfca 'h\Y'9Wcbca]WDc`]Wm'+bgh]hi hY'fYj YU`YX'h\Uh'k]h\'YUW\a]``]cb'XYdcfhYX'k cf_Yfgž'Uddfcl]a UhY`m', , ž\$\$\$'I "G"!Vcfbk cf_Yfg'a Um'U`gc'`cgY'h\Y]f''cVgž'i bXYfgWcf]b['h\Uh'ghf]WhYf]aa][fUh]cb'YbZcfWaYbh'XcYg'bch'aYfY`m'UZZYWh']aa][fUbhWcaaib]h]Yg]h'f]dd`Yg'ci hk UfXgž'UZZYWh]b['Vig]bYggYg'UbXWcbgiaYfg'U`]_Y"

: i fh\Yfa cfYž'h\Y'cb[c]b['g]hi Uh]cb']b'7U`]Zcfb]U'dfcj]XYg'U
W\]``]b['Yl Ua d`Y'cZ'\ck']a a][fUbh'k cf_Yfg 'ZYUf'\Ug
fYdYfW'gg]cbg'h\fci [\ci h'`cWU`'YWcbca]Yg"'=a a][fUh]cb'fU]Xg
\Uj Y'WUi gYX'dfchYghg'UbX'i bfYghž'`YUX]b['hc'h][\hYb]b['gYW'f]hm
a YUgi fYgž']bWi X]b['h\Y'XYd`cma Ybh'cZ'h\Y'BUh]cbU`'; i UfX"'

±b^][\hcZh\YgYacibh]b['dfYggifYgž']hg'WYUf'h\Uh'cWU``YUXYfgaighYb[U[Y']b'aYUb]b[Zi`X]U`c[iY'fY[UfX]b['h\Y'ZihifY'cZ]aa][fUh]cb'YbZcfWaYbh'UbX``UVcf'bYYXg"'K]h\'UXjcWUWh[fcidg'ghYdd]b[']b'hc'giddcfh'UZZYWhYX'ZUa]`]Ygž'h\Y'if[YbWm'ZcfWc``UVcfUh]jY'gc`ih]cbg']g'acfY'dfYgg]b['h\Ub'YjYf"

8YhU]`g	
Cfh	A cbfcY 7ci bhmž: `cf]XUžI G5
EiY``Yb	• k k k "h\ Y X U]`mV Y Ugh"Wca
	• k k k "j]gUj Yf[Y"Wca
	k k k "a Uf_Yhd`UVW"cf[

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