

9| d`cfY'h\Y'7`YUfk UhYf'Gi a a Yf'=8'Yj Ybh'cb'; `m'%) ž'&\$&) ž Uh'; Uh'YUV_'Fi ggY``'GhUX]i a 'Zcf'hcd'VUgYVU``'a Yhf]Wg'UbX Uh\`YhY'dYfZcfa UbWY']bg][\hg"



JUW_ 'Fi ggY```GhUX]i a ž'7`YUfk UhYfž': @ž'I G5'!'H\Y'HUa dU Gi a a Yf'=8'Yj Ybh'[Uh\YfYX'VUgYVU```hU`Ybhg'cb'*j bY'' ž'&\$&) ž'Uh GU]bh'@Yc'I b]j Yfg]hmž'Vf]b[]b['hc[Yh\Yf'mci b['d`UmYfg'Zfca''h\Y &\$&*!&\$&- 'WUggYg"'H\Y'YI W]hYa Ybh'k Ug'dU`dUV`Y'Ug'dUfh]W]dUbhg Yb[U[YX']b'U'dfc!ghm`Y'k cf_ci h'UbX'g\ck WUgYX'h\Y]f'UV]`]h]Yg']b Vi ``dYbg"'H\]g'Yj Ybh'k Ug'k Y``!UhhYbXYX'Vm'h\Y'DfYd'6UgYVU`` :`cf]XU'GWci h]b['GhUZZž'k \c'k YfY'cb'\UbX'hc'Yj U`i UhY'Ya Yf[]b[dfcgdYWhg"'5WWcfX]b['hc'DfYd'6UgYVU```FYdcfhž'h\Y'XUhU'X]j Y Zfca'h\]g'[Uh\Yf]b['\][\`][\hYX'_Ym'dYfZcfa UbWY'a Yhf]Wg'h\Uh UfY'fYg\Ud]b['\ck 'mci b['Uh\`YhYg'UfY'gWci hYX'UbX'hfU]bYX"

H\Y'Yj Ybh']bWcfdcfUhYX'W'hh]b[!YX[Y'hYW\bc`c[m'hc'Yj U`i UhY dYfZcfa UbW'ž'i h]`]n]b['hcc`g'gi W\'Ug'HfUW_a Ubž'6`Ughž'UbX'J5@8

 $5h\ `Yh]WHYgh]b["`A Yhf]Wg`a YUgi fYX`Xi f]b[`h\Y`Yj Ybh`]bWi XYX`h\YhfUX]h]cbU``* $!mUfX`XUg\ `Zcf`UggYgg]b[`d`UmYf`gdYYX"`5XX]h]cbU``mžh\Y`[fck]b[`g][b]Z]WUbWY`cZ`h\Y`%$!mUfX`gd`]h`]g`bchYk cfh\mžcZYf]b[`]bg][\hg`]bhc`U`d`UmYf g`Vi fgh`UbX`fYUWh]cb`h]a Y"$

?YmDYfZcfa UbWY A Yhf]Wq

 $$$ K \hookrightarrow Z'bi a VYfg'UfY'k Y'hU'_]b['UVci h3'H\Y'a Yhf]Wg \hookrightarrow ['\'][\hookrightarrow X'Xi f]b['h\Y'HUa dU'Gi a a Yf' = 8']bWi XYX'gYj YfU']bhYfYgh]b['ghUh]gh]Wg.$

- JYfh]WU``iad
- FG ∄ HYgh
- 91]h'JY`cW]hm'fAUI'UbX'5j[Ł
- 6UhhYX'6U``'8]ghUbWY'fAUIŁ
- Gk YYh Gdch DYfW bhU[Y
- < Ub X 'Gd Y Y X 'f5| [Ł
- 6Uh'GdYYX'fbj[Ł
- FchUh]cbU`'5WWY`YfUh]cb'fbj[Ł

H\YgY']bg][\hg'U``ck'Zcf'U'a cfY'bi UbW'X'i bXYfghUbX]b['cZ'Ud`UmYf g'dchYbh]U`ž'[c]b['VYmcbX'g]a d`Y'ghUh]gh]Wg'': cf']bghUbW'ž i bXYfghUbX]b['Yl]h'j Y`cW]hm'\Ug'[U]bYX']a dcfhUbW'ž'dUfh]W'`Uf`m k]h\'XYj Y`cda Ybhg']b'VUh'hfUW_]b['hYW\bc`c[mž'k\]W\'VYWUa YUj U]`UV`Y'ghUfh]b['Zfca'h\Y'gYWcbX'\U`Z'cZ'h\Y'&\$&''gYUgcbž'Ug gYYb'cb'6UgYVU``GUj Ubh''BchUV`mž'VUh'gk]b['gdYYX']g a YUgi fYX'Uh'g]l']bW\Yg'Zfca'h\Y'VUh g'\YUX Ub'UfYU'cZhYb fYZYffYX'hc'Ug'h\Y' gk YYh'gdch''' H\]g'XUhU'ZYYXg']bhc'\ck'mci b[d`UmYfg'WUb'XYj Y`cd']bhc'ghfcb[Yf'Wca'dYh]hcfg''

DfYdUf]b[: i hi fY GhUfg

K]h\ 'U'dUW_YX'gW\YXi `Y'cZi dWca]b['Yj Ybhgž']bWi X]b['h\ Y 6fUXYbhcb'Gi a a Yf'=8 'cb' is bY'%'UbX'h\Y'A]Ua]'Gi a a Yf'=8 'cb is bY'&(ž'h\ Y'cddcfhi b]h]Yg'Zcf'h\ YgY'mci b['Uh\ `YhYg'hc'g\ ck WUgY h\ Y]f'g_]``g'UfY'd`Ybh]Zi `"'H\ Y'DfYd'6UgYVU``FYdcfhici h`]bYg'U gYf]Yg'cZ'Yj Ybhg``YUX]b['i d'hc'h\ Y'GYb]cf': i hi fY'; Ua Ygž'k \]W\ dfca]gY'hc'fYj YU`'h\ Y'bYI h'k Uj Y'cZ'hU`Ybh']b'h\ Y': `cf]XU'VUgYVU``

: i fh\ Yfa cfYž'h\ Y']bhY[fUh]cb'cZ'?Ym'DYfZcfa UbWY' \pm 0X]WUhcfg ff? D \pm 0£']b'hfU]b]b['fci h]bYg']g'd]j chU`'Zcf'XYj Y`cd]b['h\ YgY Uh\`YhYg"'5g'\][\`][\hYX'Vm' G_{-}]``G\ Uf_ž'a YUgi f]b['dfc[fYgg h\ fci [\'? D \pm 0'UZZcfXg'WcUW\ Yg'h\ Y'hcc`g'hc'UggYgg'h\ Y YZZYWh]j YbYgg'cZ'h\ Y]f'ghfUhY[]Yg"': UWhcfg'`]_Y'VUhh]b['Uj YfU[Y UbX'VUgY'fi bb]b['gdYYX'VYWca Y'ZcWU`'dc]bhg'Ug'd`UmYfg'U]a 'hcfYZ]bY'h\ Y]f'g_]``g'h\ fci [\ci h'h\ Y'gYUgcb"

7cUWXYg`WUb`XYhYfa]bY`gdYW]Z]WZaYUgi fUV`YZ`UbX`UWX]Yj UV`Y [cU`g`Zcf`h\Y]f`d`UmYfgžYbgi f]b[`h\Uh`XYj Y`cda Ybh`]g`bch``YZh`hc WXUbWY"'H\Y`]bg][\hZi``UddfcUWX`hc`dYfZcfa UbWY`hfUW_]b[]bWi XYg`VYbWXa Uf_g`h\Uh`\Y`d`]XYbh]Zm`UfYUg`Zcf`]a dfcj YaYbhZaU_]b[`]h`]bWfYUg]b[`m`WYUf`h\Uh`hU`Ybh`U`cbY`]g`bch`Ybci [\`]bhcXUmg`WcadYh]h]j Y``UbXgWUdY"

#D 'WcbWi g]cbžh\Y'HUa dU'Gi a a Yf' #8 'Yj Ybh'Yl Ya d`]Z]Yg'h\Y fcVi gh']bZfUghfi Whi fY'cZ'mci h\ 'VUgYVU``']b': `cf]XU"'Bch'cb`m'XcYg]h'dfcj]XY'U'd`UhZcfa 'Zcf'Ya Yf[]b['hU`Ybhgž'Vi h']h'U`gc']bhYfhk]bYg hfUX]h]cbU``a Yhf]Wg'k]h\ 'a cXYfb'hYW\ bc`c[m'hc'Yb\UbW'\ck'k YhfU]b'UbX'bi fhi fY'h\Y'Zi hi fY'ghUfg'cZ'h\Y'gdcfh"'K]h\ 'U'ZcW' g'cb Vch\ 'Uh\ `Yh]WdYfZcfa UbW''UbX'gi VghUbh]j Y'XUhUž']h g'Yj]XYbh'h\Uh h\YfY g'a i W\ 'hc'`cc_'Zcfk UfX'hc'cb': `cf]XU g'VUgYVU``\cf]ncb"

8 YhU]`g	
Cfh	IJW_`FiggY```GhUX]iaž7`YUfk UhYfž′:@ž1 G5
EiY``Yb	k k k "dfYdVUgYVU``fYdcfh"Wca
	VUgYVU``gUj Ubh"a `V"Wca
	• g_]``g\Uf_"Wca

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