@GI:cchVU``9mYg'Hcd'FYWfi]hg'Ug';i`m 8YW]g]cb'8UhYg'5ddfcUW\

9| d`cfY`h\Y``UhYgh'@G| 'ZcchVU```fYWfi]h]b['i dXUhYgž'ZcW'g]b[cb`hcd`dfcgdYWhg'8Y5bh\cbm'@UZUmYhhY`UbX`F]W\UfX 5bXYfgcbž'Ug'h\Y]f'XYW]g]cb`XUhYg'UddfcUW\"

Cf`UbXcž: `cf]XUžI G5 !:5g'h\Y'fYWfi]h]b['gYUgcb'\YUhg'i dž'U``
YmYg'UfY'cb'8Y5bh\cbm'@UZUmYhhYž'U'h\fYY!ghUf'XYZYbg]j Y
`]bYa Ub'Zfca 'Cf`UbXc g'@U_Y'BcbU'<][\'GW\cc`"'<]g']a dfYgg]j Y
ghUh]gh]Wg``Ugh'gYUgcbž'k\]W\']bWi XYX'+' 'hUW_`Ygž'(\$'ei UfhYfVUW_\iff]Ygž'UbX'Ub'YmY!WUhW\]b['%+") 'gUW_g'cj Yf'%%'[Ua Ygž'\Uj Y
Z]fa `m'd`UWYX'\]a 'cb'h\Y'fUXUf'cZ'gYj YfU`a U'cf'Wc``Y[Y'ZcchVU``
dfc[fUa g"'5WWcfX]b['hc'Gdcfhg'=`i ghfUhYXž'@UZUmYhhY g'dfck Ygg\Ug'a UXY'\]a 'U'hcd'dfcgdYWh'Zcf'@GI ']b'h\Y'&\$&*'fYWfi]h]b[
WhWY"

<]g'fYWYbh'cZZ]W]U`'j]g]h'hc'@GI 'cb'\$ bY'%' 'gYYa g'hc'\Uj Y'a UXY'Ub
]a dUWhž'Ug'h\Y'H][Yfgž'U`cb['k]h\'C_`U\ca Už'UfY'`YUX]b['h\Y
dUW_'Zcf'\]g'Wca a]ha Ybh'''K]h\'U'XYW]g]cb'XUhY'gYh'Zcf'\$\infty\m'\%\ž
@UZUmYhhY'\Ug'h\Y'W\UbW'hc'g\UdY'h\Y'XYZYbg]j Y'`]bY'`UbXgWUdY
Uh'@GI ž'k \]W\'U'fYUXm'VcUghg'U'Wca a]ha Ybh'Zfca 'F]W\UfX
5bXYfgcbž'h\Y'hcd!fUb_YX'XYZYbg]j Y'`]bYa Ub']b'h\Y'Wci bhfm'k \c'c]bYX'h\Y'dfc[fUa ']b'&\$&("</pre>

6i]`X]b['U'7ca dYh]h]j Y'7`Ugg

5g:@GI 'YmYg'h\Y'&\$&*' WUggž'h\Ym'UfY'dcg]h]cb]b['h\Ya gY'j Yg'Zcf U'ghfcb['g\ck]b["'H\Y'dfc[fUa ']g'Yj U'i Uh]b['d`UmYfg'UWfcgg j Uf]ci g'dcg]h]cbgž'Zfca 'XYZYbg]j Y'`]bYa Yb'hc'ei UfhYfVUW_g"'H\]g VfcUX'bYh']g'Wfi W]U`'g]bWY'@GI g'W'ffYbh'fYWfi]h]b['WUggž'k\]`Y VcUgh]b['%('Wca a]hgž'`UW_g'ei Ubh]hm'Wca dUfYX'hc'Wca dYh]b[dfc[fUa g'Vi h'g\]bYg']b'ei U`]hmž'Ug'dc]bhYX'ci h'Vm'@GI 'H][YfgK]fY"

K]h\ '%) 'cZ'h\ Y'hcd'%* 'ei UfhYfVUW_g'U`fYUXm'Wca a]hhY Xž'gYW f]b[U ghUb X ci h'ei UfhYfVUW_gYYa g'`]_Y'U'XUi bh]b['W\ U``Yb[Y'Zcf'@GI"H\ Ym'UhhYa dhY X'hc'k cc'hcd'hU`Ybhg'`]_Y'6ck Y'6Ybh`Ym'Ub X'6fmgcb6YUj Yfž'Vi h'Vch\ 'cdhY X'Zcf'ch\ Yf'dfc[fUa g"'H\]g'`YUj Yg'@GI']b'U i b]ei Y'dcg]h]cbž'YgdYW]U``m'Ug'h\ Ym'a Um'bYYX'hc'fY`m'\ YUj]`m'cbh\ Y'hfUbgZYf'dcfhU`']Z'h\ Ym'WUb h'`Ub X'U'\][\ 'gW\ cc`'ei UfhYfVUW_"H\ Y'hfUbgZYf'cZ'A]WU\ Y`'J Ub'6i fYb'Zfca 'A]gg]gg]dd]'GhUhY'UXXg gca Y'XYdh\ ž'Vi h'k]h\ '; UffYhh'Bi gga Y]Yf'U\ YUX']b'h\ Y'\]YfUfW\ mž]h'_YYdg'@GI g'ei UfhYfVUW_'g]hi Uh]cb']b'U'XY`]WUhY'VU`UbW''

DfcgdYWhgcbhY< cf]ncb

H\Y'YU[YfbYgg'hc'Z]bU']nY'h\Y]f'fYWfi]h]b['WUgg'fUa dg'id'k]h\'h\Y]a dYbX]b['XYW]g]cbg'cZ'd`UmYfg'']_Y'@Ua Uf'6fck bž'U'Z]j Y!ghUfUh\`YhY'U`gc'gYh'hc'Ubbci bWY'cb'\iangle `m'%\$"'6ch\'@GI'UbX'HYIUg5/A'UfY']b'h\Y'fi bb]b['Zcf'\]g'Wca a]ha Ybhž'a U_]b['h\Yid dWca]b['XUmg'Wf]h]WU`'Zcf'Vch\'hYUag"

 $\label{eq:continuous_system} \begin{align*} 5g.@GI. Wcbh]bi Yg.hc. WUgh. U.k.]XY.bYhž.h. Y.]f.fY.Wfi.]h]b[...ghfUhY[...m.]bWi XYg.U.a.]I...cZ.\ca. Y[...fck.b.hU.Ybhg.UbX.Y.]hY.dfcgdY.Whg.Zfca.ci.h.cZ.ghUhY....cf.]bghUb.WY.zh\.Y.&$&*.fY.Wfi.]h]b[...hUf[...Yhg.gd.Ub..U.X]j.YfgY.fUb[...Y.cZ.dcg]h]cbg.k.]h\.bchUV.Y.a. YUgi.fYa. Yb.hgž.fYZY.Wh]b[...@GI.g.\c.]gh]WUd.dfc.UW...hc.Vi.].X]b[...U.Wca.dYh]h]j.Y.fcghYf".H\.]g.]bWi XYg.g]nYg.cZ.XYZYbg]j.Y...]bYa.Yb.fYUW.]b[...i.d.hc.*!, ...UbX.g_]...dcg]h]cbg...]-Y.k.]XY.fY.WY.]j.Yfg.Uh.*!$z.XYa.cbghfUh]b[...h\.Y.d\.mg].WU.]hm.Ub.X.j.YfgUh].]hm.h\.Y.Wc.UW.]b[...ghUZZ.gYY_gz.Ug.ci.h.]bYX.Vm.&(+...Gd.cfhg."$

5g'k Y``cc_'U\YUXž']h g'Yj]XYbh'h\Uh'@Gl g'fYWfi]h]b['XYW]g]cbg'k]``\Uj Y``cb[!`Ugh]b['YZZYWhg"'K]h\`\][\'ghU_Yg']b'h\Y'XYW]g]cbg'cZ\Vch\'@UZUmYhhY'UbX'6fck bž'h\Y'Wca]b['k YY_'Wci `X'gYh'h\Y'hcbY\Zcf'h\Y'Ybh]fY'&\$&* 'WUgg"'6i W_`Y'i dž'ZcchVU```ZUbg/']h g'UVci h'hc [Yh'YI W]h]b["

8 Y hU]`g	
Cfh	Cf`UbXcž': `cf]XUž'l G5
EiY``Yb	• k k k "g]"Wca
	• &(+gdcfhg"Wca
	• `gi h][Yfgk]fY"i gUhcXUm"Wca

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