

HGJ 'GW\`i hi d 'g]W\ Yfh'g]W\ J]YfhY`Z]bU`d`Uhn']a '?fY]gdc_U`

8 Y f 'HGJ 'GW\`i hi d 'n]Y\h'bUW\ 'Y]bYa '' . &!G]Y['ØVYf': cfhi bUGh" '>Øf[Yb']bg'J]YfhY`Z]bU`Y'XYg'?fY]gdc_U`g'Y]b'i bX'hf]ZZhXfh'Ui Z'XYb'G]Y[Yf'9]W\c`nYf'GJ#G7'FUd]X"

±0 @ VYW_`\Uh'XYf'HGJ'GW\`i hi d'Y]bYb'VYXYi hYbXYb'GW\f]hh']a?fY]gdc_U`'[Ya UW\h'i bX'g]W\'U`g'YfghYg'HYUa 'ZØf'XUg J]YfhY`Z]bU`Y'ei U`]Z]n]Yfh"'8]Yg']gh'b]W\h'bi f'Y]b'gdcfh`]W\Yf Hf]i a d\ž'gcbXYfb'nY][h'Ui W\'XYb'\c\Yb'9]bgUhn'i bX'X]Y 9bhgW\`cgqYb\Y]hž'X]Y']b'XYf'FY[]cb'j cf\YffgW\h''

8YfKY[]bgJ]YfhYZ]bUY

5a `A]hhk cW\UVYbX`[Y`Ub[`XYa `HGJ`GW\`i hi d`Y]b`gdUbbYbXYf '.&!G]Y[`[Y[Yb`: cfhi bU`Gh"`%f[Yb"`8]Y`Gd]Y`Yf`XYf < Y]a a UbbgW\UZhž`Ub[YZØ\fh'j cb`H]a `6`cW]gnYg_]ž`XYf`VYfY]hg`]b XYf`*"`A]bi hY`hfUZž`nY][hYb`Y]bY`VYY]bXfi W_YbXY`@Y]ghi b[" CVk c\``g]Y`ni f`<U`VnY]h`Y]bYa `FØW_ghUbX`[Y[YbØVYfghUbXYbž_cbbhYb`g]Y`]b`XYf`nk Y]hYb`<À`ZhY`]\f`Gd]Y``XYi h`]W\`ghY][Yfb"`\\$fY < UfhbÀ\W_][_Y]h`k i fXY`a]h`k Y]hYfYb`HcfYb`j cb`6`cW]gnYg_]`i bX 5`YI UbXYf`@U[Y`gck]Y`Y]bYa `UVgW\`]Y``YbXYb`G]Y[hcf`VY`c\bhž hfchn`Y]bYf`fchYb`?UfhYž`X]Y`g]Y`]b`XYf`GW\`i ggd\UgY`Yf\]Y`hYb"

Gh]a a Yb 'ni f'DUfh]Y. 'HfU]bYf'gc``hYb UbYf_Ubbh'k YfXYb

HfU]bYf'H]a '?fYi hnZY`Xh'_ca a Ybh]YfhY'XYb']bhYbg]j Yb'K Yhh_Ua dZi bX'X]Y'ghUf_Y'@Y]ghi b['gY]bYf'A UbbgW\UZh.' 9g'k Uf'XUg'Yfk UfhYh gW\k YfY'Gd]Y`'[Y[Yb'Y]bYb'U[[fYgg]j Yb'i bX'[i h'Y]b[YghY``hYb; Y[bYf"'=b'XYf'YfghYb'<U`VnY]h'\UVYb'k]f'nk Uf'a Y\f'j ca 'Gd]Y`ž

 $\label{eq:hfchnXYa} $$ TY^hY'ibg'X]Y'8ifW gW^U[g_fUZh''GY]bY'5iggU[Y']YfXYih^b]Wh'bif'X]Y'5aV]h]cbYb'XYg'HYUagž'gcbXYfb'UiWXX]Y'<YfUigZcfXYfib[Ybž'X]Y'gc^WXY'Gd]Y^Y'a]h'g]WX'Vf]b[Yb'''8UgAUhWX']gh'Y]b'XYih^bWYg'NY]WXYb'ZØf'X]Y'KYhhVYkYfVgZÀ\][_Y]h']aDc_U^"$

FYU_h]cbYb'XYf'A]hVYk YfVYf

±0. UbXYfYb. 6Y[Y[bib[Yb. XYf. YfghYb. FibXY. XYg.? fY]gdc_U`gnY][hYb. hYUagdYn]Z]gW.Y. 9fZc`[Yž.X]Y. XUg.\c\Y.B]j.YUi. XYg K.YhhVYk.YfVg.iibhYfghfY]W.Yb."Gc.[Yk.Ubb. XYf.: 7.8 cfbVfY]hY `Yhnh`]W. a]h. &. %. [Y[Yb. XYb. HGJ.? ØW_b]hnž.k.À\fYbX. @ØVYW_.%, +*g]W. bUW. Y]bYa. gdUbbYbXYb.9`ZaYhYfgW.]Y.» Yb. [Y[Yb. XYb. J.Z@6UX.GW.k.UfhUi. XifW.gYhnYb._cbbhY".8]Y. HfU]bYf.VY]XYfibhYf.Y[YbYb.A.UbbgW.UZhYb.\cVYb. XYb.ghUf_Yb.9]bgUhn.]\fYfGd]Y.Yf.\Yfj.cfž.XYf.j.YfXYi.h`]W.hž.XUgg.]b.XYf.FY[]cb.hU.Ybh]YfhYHYUag.VY[Y[bYb"

8Yf?fY]gdc_U`U`g Gdfi b[VfYhh

8 Yf'? fY]gdc_U``\Uh'Y]bY`k]W\h][Y': i b_h]cb']a '`c_U`Yb': i » VU``"'9f V]YhYh'b]W\h'bi f'Y]bY`D`UhhZcfa 'ZØf'hU`Ybh]YfhY'Gd]Y`Yfž'gcbXYfb Ui W\'Y]bY`A Ò[`]W_Y]hž'X]Y'; Ya Y]bgW\UZh'i a 'X]Y'HYUa g'ni ZÒfXYfb"'8 Yf': i » VU```n]Y\h': Ubg'Ub'i bX'ghÀf_h'XUg'; YZØ\``XYf Ni [Y\Òf][_Y]h']b'@ØVYW_"'A]h'6`]W_'Ui Z'X]Y'_ca a YbXYb'Fi bXYb_ObbhY'XYf'HGJ'GW\'i hi d'hUhgÀW\`]W\'Ui Z'Y]bYb'a Ò[`]W\Yb'H]hY`\]bUfVY]hYbži bX'X]Y'_ca a YbXYb'6Y[Y[bi b[Yb'k YfXYb'a]h GdUbbi b['Yfk UfhYh"

5i gV`]W_Ui Z'XUg'J]YfhY`Z]bU`Y

 $= \text{a.J.}] Y f \text{hY.} Z] \text{b.U.} Y \text{hf.}] ZZ \text{h.XYf.} \text{HGJ.} \text{GW.} \text{i.hi.d.} \text{Ui.} Z \text{XYb.} \text{G.}] Y [Y \text{f.XYf.} \text{DUfh.}] Y \\ \text{nk.}] g \text{W.Yb.} 9] \text{W.Lc.} \text{nYf.} \text{GJ.} \text{i.b.X.} \text{G.7.} \text{F.Ud.}] X \text{".8.}] Y \text{J.c.} \text{G.ZYf.} \text{XY.} \text{Ui.} Z \text{XJ.} \text{Y.g.Y} \\ \text{6Y.} [Y [\text{bi.b.} ["] g \text{h.g.d.} \text{Øf.V Uf.} \text{Z} \text{XYbb.} \text{YXYf.} \text{G.}] Y ["] a \text{"Dc._U.} \text{k.YhhVYk.Yf.V} \\ \text{Vf.} \text{b.[h.gck.c.} \text{``DfYgh.} [Y \text{`U.} \text{g.Ui.} \text{W.X.}] Y \text{`A.} \text{O.} [`] \text{W._Y.}] \text{hz.} \text{XUg.} \text{HYUa.} \text{k.Y.}] \text{hYf.} \\ \text{ni.} \text{ZOfXYfb.} \text{".8.}] Y \text{:. Ubg.} \text{g.} \text{b.X.} \text{c.d.} \text{hJa.}] \text{gh.}] \text{gW.} \text{`i.b.X.} \text{c.} \text{ZZYb.} \text{z.XUgg.} \text{XYf.} \text{HGJ.} \\ \text{GW.} \text{`i.hi.d.} \text{k.Y.} \text{hYf.}] \text{b.g.} \text{g.} \text{b.Y.} \text{VYY.}] \text{b.Xfi.} \text{W._Yb.XY.} \text{c.c.} \text{c.fa.} \text{VY.}] \text{VY.} \text{U.hYb.} \\ \text{SW.} \text{`i.hi.d.} \text{k.Y.} \text{hYf.}] \text{b.g.} \text{g.Y.} \text{b.Y.} \text{VYY.}] \text{b.Xfi.} \text{W._Yb.XY.} \text{c.c.} \text{c.fa.} \text{VY.}] \text{VY.} \text{U.hYb.} \\ \text{SW.} \text{`i.hi.d.} \text{k.Y.} \text{hyf.} \text{hyf.} \text{b.Y.} \text{VYY.}] \text{b.Xfi.} \text{W._Yb.XY.} \text{c.c.} \text{c.fa.} \text{VY.}] \text{VY.} \text{U.hYb.} \\ \text{VY.} \text{VY.} \text{V.hYb.} \text{VYY.} \text{b.Xfi.} \text{c.g.} \text{c.hi.} \text{c.fa.} \text{VY.} \text{VY.} \text{VY.} \text{VY.} \text{VY.} \text{V.hYb.} \\ \text{V.hyb.} \text{VY.} \text{V.hyb.} \text{VY.} \text{V.hyb.} \text{V.hyb.} \\ \text{V.hyb.} \text{V.hyb.} \text{V.hyb.} \\ \text{V.hyb.} \\ \text{V.hyb.} \\ \text{V.hyb.} \text{V.hyb.} \\ \text{V.hy$

Ubb"

8]Y'gdcfh`]W\Yb'9fY][b]ggY']a '?fY]gdc_U`'j YfXYi h`]W\Yb'b]W\h'bi f XYb'K YhhVYk YfVg[Y]gh'XYf'HYUa gž'gcbXYfb'Ui W\'X]Y']bX]j]Xi Y``Y i bX'_c``Y_h]j Y'5bghfYb[i b[Ybž'X]Y'\]bhYf''YXYa '9fZc`['ghY\Yb" 8]Y'_ca a YbXYb'K cW\Yb'_ÒbbhYb'YbhgW\Y]XYbX'ZØf'X]Y'Ni _i bZh XYf'A UbbgW\UZh'gY]bž'gck c\``Ui Z'gdcfh`]W\Yf'U`g'Ui W\'Ui Z [Ya Y]bgW\UZh`]W\Yf'9VYbY"

B 5;

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z b!U["XY