\$ `m'(`]g']bXYYX`U`ZYXYfU``\c`]XUmž'gc`Xcb h'VY`gi fdf]gYX`]Z'mci Z]bX`VUb_g`UbX`[cj Yfba Ybh'cZZ]WYg`WcgYX"`<ck Yj Yfž'fYhU]`Yfg `]_Y`Di V`]I`UbX`K U`a Ufh'k]```\Uj Y`h\Y]f`Xccfg`cdYbž'k \]`Y`7cghWc k]```hU_Y`h\Y`XUm'cZZ"':]fYk cf_g`UfY``Y[U``UWfcgg`: `cf]XU`cb`h\]g XUhY cbY`cZ`f gh'h\fYY`XUmg`k \Yb`h\Ym`WUb`VY`Yb'cmYX `Y[U``m a U_]b[`]h'U`\ch'h]W_Yh'Zcf`hck bg`YU[Yf`hc`WY`YVfUhY"

8 Umhc b U '6 Y UW X ž: `cf] X U ž I G 5 '! '5 g 'h Y ': ci fh 'c Z' i `m Ud d f c UW Y g ž]h g 'h]a Y 'Z c f :: `cf] X]Ub g 'hc 'V fi g \ c ZZ'h Y]f 'V Y UW hc k Y `g 'Ub X 'Xi gh c ZZ'h Y]f 'V U f V Y W Y '[f]``g" '7 Y `Y V f U h] c b g 'U f Y `]b 'Z `` gk]b [ž Y g d Y W] U ``m`] b 'J c `i g] U '7 ci b hmž k \Y f Y 'Z] f Y k c f _g 'W U g \ 'k]h VY UW 'd U fh] Y g `]b 'U 'W c `cfZ ``X] g d `Um c Z'd U hf] c h] g a " ' = h g 'U 'hfi Y 5 a Y f] W b 'hf U X] h] c b ž 'U b X 'h]g 'm Y U f ']g 'Y I d Y W Y X 'hc 'V Y 'b c 'X] Z Y f Y b h"



8]gWcjYf`:cifh\`cZ`;i`m`ZYgh]j]h]Yg`]b`Jc`ig]U`7cibhmž]bWiX]b[`Z]fYkcf_gž`cWU``YjYbhgž`UbX`VYUW\`UWWYgg`XYhU]`g"

7Y`YVfUhY`=bXYdYbXYbWY`8Um`:]fYk cf_g UbX`:ib`5kU]h`]b`Jc`ig]U°

8Ygd]hY`h\YgY`fYghf]Wh]cbgž`]h`g\ci`X`WcaY`Ug`bc`gifdf]gY`h\Uh

A Ubm'W]h]Yg'k]h\]b'Jc`i g]U'7ci bhm'\Uj Y'h\Y]f'ck b'Z]fYk cf_g fY[i`Uh]cbg"': cf']bghUbWYž']b'8Y`hcbUž'Z]fYk cf_g'a i gh'VY X]gW\Uf[YX'a cfY'h\Ub'%\$\$'ZYYh'Zfca 'hYa dcfUfm'ghUbXg'cf ZUa a UV`Y'a UhYf]U`gž'k \]`Y'BYk 'Ga mfbU'6YUW\'dYfa]hg gdUf_`Yfg'Vi h'dfc\]V]hg'a cgh'Z]fYk cf_g'k]h\ci h'U'dYfa]h" 9X[Yk UhYf'VUbg'h\Y'dcggYgg]cb'UbX'gU`Y'cZ'Z]fYk cf_g'U`hc[Yh\Yfž k \]W\'[cYg'hc'g\ck 'h\Y']a dcfhUbWY'cZ'_bck]b['`cWU``Uk g" 8UmhcbU'6YUW\'g]a]`Uf`m'dfc\]V]hg'Ubm'X]gV\Uf[Y'cZ'Z]fYk cf_gž a U_]b['`]h'YggYbh]U``Zcf'fYg]XYbhg'hc'd`Ub'UW\cfX]b[`m"

@cWU``FY[i`Uh]cbg`5fY`?Ym

K \]`Y'dYfgcbU``Z]fYk cf_g'Vf]b['YI W]hYa Ybhž']hg']a dcfhUbh'hc'bchY h\Uh'h\Ym'UfY'UWhi U``m'VUbbYX'cb'Jc`ig]U'7ci bhm'VYUW\Yg"'9j Yb h\ci [\`:`cf]XU'`Uk 'U``ck g'h\Y]f'i gY'cb'=bXYdYbXYbWY'8Umž'`cWU` cfX]bUbWYg'hU_Y'dfYWYXYbWY'\YfY'Xi Y'hc'Ybj]fcba YbhU` WcbWYfbg"'H\Y']a dUWh'cb'bYgh]b['gYU'hi fh`Yg'UbX'`cWU`'V]fXg'\Ug dfca dhYX'ghf]WhYf'fY[i`Uh]cbgž'Ug'\][\`][\hYX'Vm'977i ffYbh"

7Y`YVfUh]cb`k]h\`YjYbhg`U```XUm``cb["

- d"a " • : `U[`Yf`6YUWXž`DU`a `7cUghž`UbX`6i bbY``. `7ca a i b]hm
- Z]fYkcf_g'Uh'- 'd"a " • BYk GamfbU'6YUW. '≯ `m'(h\ '7Y`YVfUh]cb'Zfca '(!-.' \$
- .%) 'd"a "
 @U_Y'<Y`Yb. '7Y`YVfUh]cb'k]h\ 'U'dUfUXY'Uh'%\$ 'U"a "'UbX'
 ?lfVk cf_q'Ub'_'d"a "
- 8Y6Ufm (h\ cZ i `m': fYYXca `: Ygh Zfca `*!%\$.' \$`d"a "
 8Y`hcbU. 5``5a Yf]WUb 6`Ugh Zfca `)!- `d"a "ž Z]fYk cf_g Uh

• $\mathbf{Q} \mathbf{V} \mathbf{A} \mathbf{I} \mathbf{f} \mathbf{m}^{-1} (\mathbf{h}) = \mathbf{Z}^{-1} \mathbf{i}^{-1} \mathbf{m}^{-1} \mathbf{f} \mathbf{V} \mathbf{V} \mathbf{C} \mathbf{a}^{-1} \mathbf{V} \mathbf{q} \mathbf{h}^{-1} \mathbf{f} \mathbf{C} \mathbf{a}^{-1} \mathbf{k}^{-1} \mathbf{Q} \mathbf{k}^{-1}$

D`Ybhm`cZ`Z]fYk cf_`X]gd`Umg`UfY``]bYX`i d`Zcf`fYg]XYbhg`UbX`j]g]hcfg U`]_Y`]b`J c`i g]U`UbX`: `U[`Yf`Wci bh]Yg"`8UmhcbU`6YUW\`k]```\cgh`h\Y GhUf`GdUb[`YX`Gi a a Yf`7cbWYfh`GYf]Ygž`gYh`hc`_]W_`cZZ`Uh`+.%) d"a "ž`k]h\`Z]fYk cf_g``][\h]b[`i d`h\Y`g_m`Uh`-.()`d"a "`Ch\Yf WY`YVfUh]cbg`]bWi XY.

:]fYk cf_g'UbX'9j Ybhg'; U`cfY

fYg]XYbhgʻUfYʻ_YYbʻhcʻ_YYdʻh\Y]fʻWY`YVfUh]cbgʻ]bhUWh"ʻ5WWcfX]b[ʻhc BYkg! >cifbU``Cb`]bYžh\Y`Wcibhm`\UgʻUbʻUffUm`cZ'ZYgh]j]h]Yg `]bYXʻidž'aU_]b[ʻ]hʻUʻdf]aY``cWUh]cbʻZcfʻWY`YVfUh]b[ʻh\Y`\c`]XUm" :cfʻfYg]XYbhgʻk\cʻkUbhʻhcʻ\]hʻh\Y`VYUW\Ygž'ZfYY`VYUW\ʻdUggYg UfYʻUjU]`UV`Yʻcb`]bYʻcfʻ]bʻdYfgcbžʻk]h\ʻYI]gh]b[ʻdUggYgʻjU`]Xʻibh]` h\Y]fʻYId]fUh]cb"

GhUm[•]GUZY[•]Ub X[•]9b [^]c m[•]

5gʻZUa]`]YgʻdfYdUfYʻZcfʻh\Yʻ\c`]XUmžʻ]hgʻk cfh\ʻfYa Ya VYf]b[gUZYhmʻh]dgʻZfca ʻJ c`i g]Uʻ7 ci bhmʻ:]fYʻF YgWʻY"'?]Xgʻg\ci `XʻbYj Yf \UbX`YʻZ]fYk cf_gžʻUbXʻUXi `hgʻg\ci `XʻYI YfW]gYʻWUi h]cbʻhcʻdfYj Ybh Ubmʻa]g\Udg"`5`k Umgʻ_YYdʻUʻk UhYfʻgci fWYʻbYUfVmʻUbXʻVYʻgi fYʻhc WYUbʻi dʻUZhYfk UfX"`FYa Ya VYfž'k \]`Yʻh\Yʻg_]Ygʻ`][\hi dʻ]b WYʻYVfUh]cbžʻgUZYhmʻg\ci `XʻU`k UmgʻfYa U]bʻdUfUa ci bh"

Gcžⁱk \Yh\Yfⁱmci fYⁱhi b]b[⁻]bhc[·]U[·]WcbWYfhž[·]Yb[·]cm]b[⁻U[·]Z]fYk cf_g X]gd[·]Umž[·]cf[·]gcU_]b[⁻i d[·]h\Y[·]gi b[·]cb[·]h\Y[·]VYUWXž[·]a U_Y[·]gi fY[·]h\]g : ci fh\[·]cZ[·] i m[·]]g[·]Z]^{··}YX[·]k]h\[·]Zi bž[·]ZUa][·]mž[·]UbX[·]U[·]\YU[·]h\m[·]XcgY[·]cZ dUhf]ch]ga "[·]<YfY g[·]hc[·]U[·]ZUbhUgh]WW[·]YVfUh]cb[·]]b[·]Jc[·]i g]U[·]7ci bhm[°]

5gʻh\Yʻ5a Yf]WUbʻ5i hca cV]`Yʻ5ggcW]Uh]cbʻdfYX]Whgʻh\Uhʻ+&"& a]``]cbʻdYcd`Yʻk]``hfUj Y``Uh``YUgh`)\$`a]`YgʻZfca `\ca Y`h\]g ≢bXYdYbXYbWY'8Umž']h`a][\h`VY`k cfh\ʻghUm]b[`WcgY`hc`\ca Y`Zcf`U d]bh`cZ``cWU``VYYf`UbX`Ubʻi ba]ggUV`Y`VYUW\g]XY`Z]fYk cf_g gdYWhUWY''<Uj Y`U`\Uddm`UbX`gUZY`: ci fh\`cZ`≯`m°

8YhU]`g	
Cfh	8UmhcbU~6YUWXž:`cf]XUžIG5
EiY``Yb	• k k k "bYk g! ^ci fbU`cb`]bY"Wca
	• YWW/ffYbh"Wca
	• k k k "b V Wb Y k mcf_"Wca

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