GUfUgchU'K Y`Wca Yg'%\$ž\$\$\$'J]g]hcfg'Zcf H\f]``]b['I G'Fck]b['7\Ua d]cbg\]dg°

Cj Yf'(ž\$\$\$'mci h\ 'fck Yfg'Wca dYhY'Uh'h\Y'l G'Fck]b[BUh]cbU`'7\Ua d]cbg\]dg']b'GUfUgchU'7ci bhmž'Vccgh]b['`cWU` hci f]ga 'UbX'YWcbca m'



BUh\Ub'6YbXYfgcb'DUf_ž'GUfUgchU'7cibhmž'IG5'!
H\cigUbXg'cZfckYfg'UbX'h\Y]f'giddcfhYfg'\UjY'XYgWbXYX'idcbBUh\Ub'6YbXYfgcb'DUf_']b'GUfUgchU'7cibhm'Zcf'h\Y'aiW\!
Ubh]W]dUhYX'IG'Fck]b['Mcih\BUh]cbU''7\Uad]cbg\]dž'hU_]b[d'UWY'Zfca'H\ifgXUm'h\fci[\GibXUm''H\]g'dfYgh][]cig'YjYbhVf]b[g'hc[Yh\Yf'cjYf'(ž\$\$\$'Uh\YhYg'Zfca'\][\gW\cc''WiVgUWfcgg'h\Y'Wcibhfmž'U'''cZ'k\ca'\UjY'XYX]WUhYX'h\YagY'jYg'ZcfmYUfg'hc'eiU']Zm'h\fci[\'jUf]cig'fY[]cbU''W\Uad]cbg\]dg"'5gYIW]hYaYbh'Vi]'Xg'UfcibX'h\Y'dUf_ž'`cWU'cZZJ\W]U'g'UfY'cdh]a]gh]WUVcih'h\Y'giVghUbh]U''YWcbca]WVccgh'h\Y'YjYbh']g'YIdYWhYX'hcdfcj]XY'Zcf'Vch\'GUfUgchU'UbX'bYUfVm'AUbUhYY'7cibh]Ygž'k]h\UfcibX''%\$`\$\$\$'j]g]hcfg'dfc'YWhYX'hc'ZcW_'hc'h\Y'UfYU''

K]h\ 'h\ Y 'hfUX]h]cbU``hci f]gh'gYUgcb'k]bX]b['Xck bž'h\ Y W\ Ua d]cbg\]d'i b]ei Y`m'dcg]h]cbg']hgY`Z'hc'\ Y`d'fY'\ j YbUhY'`cWU` Vi g]bYggYg"'H\ Y'8]fYWhcf'cZ'Gdcfhg'k]h\ 'J]g]h'GUfUgchU'7ci bhm Ya d\ Ug]nYX'h\ Y']a dcfhUbWY'cZ'h\]g'_]bX'cZ']bZii I 'Zcf'`cWU` fYghUi fUbhg'UbX'UhhfUWh]cbgž'\][\`][\h]b['\ck 'h\ YgY'j]g]hcfg gi ddcfh'Wca a i b]hm'UWh]j]h]Yg'UbX'Vi g]bYggYg"'5g': cI '%' 'BYk g fYdcfhgž'h\ Y'W\ Ua d]cbg\]d']g'U`gc'gYYb'Ug'U'g][b]Z]WUbh cddcfhi b]hm'hc'dfca chY'h\ Y'gdcfh']hgY`Z'UbX'XfUk']b'Yj Yb'a cfY gdYWhUhcfg'YU[Yf'hc'k]hbYgg'h\ Y'h\ f]``]b['Wca dYh]h]cb"

@c[]gh]Wg^UbX^7caaib]hm^Giddcfh

 $DUfh]W]dUbhg`UbX`h\Y]f`hYUa g`UfY`k Y``!dfYdUfYX`k]h\`U`fUb[Y`cZ`c[]gh]WU``UffUb[Ya Ybhg"`HfU]`Yf`dUf_]b[`Uh`BUh\Ub`6YbXYfgcb DUf_`]g`cdYb`Zfca `*.' $`U"a "`hc`, .$$`d"a "ž`k]h\`gdYW]Z]Wgdchg U``cWUhYX`cb`U`Z]fgh!Wca Yž`Z]fgh!gYfj YX`VUg]gž`Ybgi f]b[`Ub cf[Ub]nYX`cdYfUh]cb"`5g`dYf`l GF ck]b[ž`hYUa g`UfY`fYei]fYX`hc fY[]ghYf`h\Y]f`hfU]`Yfg`VYZcfY`Uff]j]b[ž`k \]`Y`dfUWh]WY`\ci fg`UfY gW\YXi `YX`Zfca `, .$$`U"a "`hc`(.() `d"a "ž`k]h\`UXX]h]cbU``cdYb dfUWh]WY`g`chg`]b`h\Y`Yj Yb]b[`Zcf`WfYk g`h\Uh`a]ggYX`h\Y]f`YUf`]Yf `Ui bW\`h]a Yg"`\ndots g`Uh\[\nabla hg`U`h][\nabla hm`WccfX]bUhYX`YZZcfh`a YUbh`hc`U``ck h\YgY`mci b[`Uh\`YhYg`hc`g\]bY`cb`h\Y`k UhYf"$

5`cb[g]XY`h\Y`gdcfh]b[`UWh]cbž'j]g]hcfg`\Uj Y`U`W\UbWY`hc`]bXi`[Y]b`X]j YfgY`ZccX`cZZYf]b[g`Zfca ``cWU``ZccX`hfi W_gž'Ug`k Y```Ug`g\cd]b`h\Y`j YbXcf`UfYUž'fY]bZcfW]b[`U`gYbgY`cZ`Wca a i b]hm`UbX gi ddcfh`Xi f]b[`h\Y`Yj Ybh"`5XX]h]cbU``mž'U`[fUXi Uh]cb`WYfYa cbm Zcf`gYb]cfg`k Ug`\Y`X`cb`¾ bY`%%ž'Zi fh\Yf`i bXYf`]b]b[`h\Y]a dcfhUbWY`cZ'h\Y`W\Ua d]cbg\]d`]b`ZcghYf]b[`U`gd]f]h`cZ

9Wcbca | W=a dUWhcZGdcfhg Hcif|ga

H\]g`W\Uad]cbg\]d`]g`U`df]a Y`YI Uad`Y`cZ`\ck `gdcfhg`hcif]ga `WUb WUhU`mnY`YWcbca]W[fck h\`]b`h\Y`fY[]cb"`5g`\][\`][\`][\hYX`Vm`h\Y` Mcih\`Gdcfhg`6ig]bYgg`FYdcfhž'YjYbhg``]_Y`h\YgY`bch`cb`m XfUk `Wfck Xg`Vih`U`gc`WfYUhY`X]fYWh`gdYbX]b[`cddcfhib]h]Yg`Zcf`cWU``Viq]bYgqYq Zfca `UWWcaacXUh]cbg`UbX`X]b]b[`hc

YbhYfhU]ba Ybh'UbX'fYhU]`"'6YmcbX'h\Y']a a YX]UhY'YWcbca]W VYbYZ]hgž'h\Ym'Wcbhf]Vi hY'g][b]Z]WUbh`m'hc'hUl'fYj Ybi Yž'k \]W i `h]a UhY`m'Zi bXg'Wca a i b]hm'gYfj]WYg"

: i fh\ Yfa cfYžh\ Y f]dd`Y YZZY Whic Zhci fbUa Ybhg``]_Y h\ Y I G`F ck]b[Mci h\ 'B Uh]cbU``7\Ua d]cbg\]d 'ZcghYfg' 'cV' WfY Uh]cb']b'j Uf]ci g gY Whcfgž']bWi X]b['ZUW]`]hm'a UbU[Ya Ybh'UbX'\cgd]hU`]hmžk \]`Y U`gc'dfca ch]b[']bZfUghfi Whi fY']a dfcj Ya Ybhg'h\ Uh'Yb\ UbW' h\ Y ei U`]hm'c Z``]ZY 'Zcf'Vch\ 'fYg]XYbhg'UbX'j]g]hcfg"' =b 'YggYbWYž]bj Ygh]b[']b 'gdcfhg'hci f]ga 'bch'cb`m'Vccghg'`cWU`'YWcbca]Yg'Vi h U`gc'ghfYb[h\ Ybg'Wca a i b]hm']XYbh]hm'UbX'df]XYž'U```k\]`Y WfYUh]b['`Ugh]b['a Ya cf]Yg'h\fci [\ 'g\ UfYX'gdcfh]b['YI dYf]YbW'g"

 $\label{eq:conditional} $$ g'h Y'k YY_YbX'i bZc`Xgž'GUfUgchU'7ci bhm']g'gYh'hc'g\ck WUgY']hg \cgd]hU`]hm'UbX'h\Y'h\f]```cZ'fck]b["'9UW\'ghfc_Y']b'h\Y'k UhYf \YW\cYg'h\Y'XYX]WUh]cb'cZ'h\Y'Uh\`YhYg'UbX'h\Y'Ybh\i g]Ugh]W \W\YYfg'cZ'h\Y]f'gi ddcfhYfgž'a Uf_]b['U'k cbXYfZ'\`WY`YVfUh]cb'cZ hU`Ybh'UbX'Wca a i b]hm'gd]f]h"$

8 Y hU]`g	
Cfh	BUh\Ub'6YbXYfgcb'DUf_ž'GUfUgchU'7cibhmž IG5
Fi Y``Yb	• k k k "Zcl %' bYk g"Wca
	• i gfck]b["cf[
	mci h\gdcfhgVi g]bYggfYdcfh"Wca

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