

5 Zcfa Yf@YY 7ci bhm WcffYWh]cbg cZZ]WYf Vf]YZm YgWUdYX UZhYf U 8 I = UffYghž Vi hk Ugʻei]W_`m UddfY\YbXYX Vm dc`]WY"



@YY'7cibhmž: `cf]XUž'I G5'! *\D'W'f]cig'hifb'cZ'Yj Ybhg'h\]g k YY_ž'U'Zcfa Yf'WcffYWh]cbg'cZZ]WYf'bUa YX'A Uhh\Yk'7i fVY`c a UXY'\YUX`]bYg'UZhYf'\Y'Vf]YZm'YgWUdYX'Zfca 'W'ghcXm'Zc``ck]b[U'8I ='UffYgh']b'@YY'7cibhmž: `cf]XU"'H\]g']bW]XYbh'\Ug'fU]gYX YmYVfck gž'Wcbg]XYf]b['7i fVY`c g'dUgh'Yl dYf]YbWY'k]h\'h\Y''U]` gmghYa "'5WWcfX]b['hc': cl'('Bck ž'7i fVY`c'k Ug'UV`Y'hc'Yl d`c]h\]g'_bck `YX[Y'cZh\Y'ZUW]`]hmž'a UbYi j Yf]b['h\fci[\'i bgYW'fYXUfYUg'k\]'Y'cZZ]WYfg'k YfY'Vi gm'k]h\'\]g'fY`YUgY'dUdYfk cf_"

: cfhi bUhY`m'Zcf``Uk 'YbZcfWYa Ybhž'7i fVY`c g'V]X'Zcf'ZfYYXca 'k Ug g\cfh!`]j YX"'H\Y': cfh'A mYfg'Dc`]WY'8YdUfha Ybh'gk ccdYX']b'UbX UddfY\YbXYX'\]a 'bYUfVmž'Uj Yfh]b['k \Uh'Wci `X'\Uj Y'VYYb'U'ZUf a cfY'Wca d`]WUhYX'g]hi Uh]cb"'@YY'7ci bhm'G\Yf]ZZ'7Ufa]bY

A UfWYbc'hcc_'hc'gcW]U`'a YX]U'hc'Ya d\Ug]nY'h\Y']a d`]WUh]cbg'cZ h\]g'YgWUdYž'dUfh]W'`Uf`m'dc]bh]b['ci h'7i fVY`c g'ZUa]`]Uf]hm'k]h\h\Y''U]`'dfchcWc`"'5g']h'ghUbXg'bck ž'Ui h\cf]h]Yg'\Uj Y'bch'fYj YU`YX Ubm'UXX]h]cbU`'W\Uf[Yg'\Y'a Um'ZUWY']b'WcbbYWh]cb'k]h\'\]g UhhYa dh'hc'YgWUdY"

5 '7 `cgYf'@cc_'Uh'h\ Y '5 Wh]cbg'cZ'@Uk 9bZcfWYa Ybh

H\]g`]bW]XYbh`ZcfWg`i g`hc`Ug_.`\ck `X]X`7i fVY`c g`YgWUdY`[c i bbch]WYX`Zcf`Yj Yb`U`Vf]YZ`a ca Ybh3`H\Y`]a d`]WUh]cbg`cZ`U`Zcfa Yf cZZ]WYf`a Ub]di `Uh]b[`\]g`Zcfa Yf`k cf_d`UWY`UfY`gi VghUbh]U``UbX k UffUbh`U`WcgYf`YI Ua]bUh]cb`cZ`\ck ``Uk `YbZcfWYa Ybh`\UbX`Yg gi W\`g]hi Uh]cbg"`Di V`]WWcbZ]XYbWY`]b``Uk `YbZcfWYa Ybh`\]b[Yg`cb h\Y`dYfWYdh]cb`h\Uh`h\Ym`WUb`UXYei UhY`m`a UbU[Y`h\Y]f`ck bž`Ug k Y```Ug`Ybgi fY`Wca a i b]hm`gUZYhm"

5grbchYX Vmrh\Y I "G" 8 Yd Ufha Ybh'c Z' i gh] W ž'h\YfY 'UfY 'ghf] Wh dfchc Wc`g']b'd`UWY 'Zcf']bj Ygh][Uh]b['U``Y[Uh]cbg'c Z'a]gWcbXi Wh Ua cb['`Uk 'YbZcfWa Ybh'c ZZ] W fg" 'H\Y] f'a UbXUhY 'YI hYbXg'hc j Uf]ci g'Zcfa g'c Z'k fcb[Xc]b[ž']bWi X]b['a]gi gY'c Z'Ui h\cf]hm'UbX ZU]`i fY'hc 'UXYei UhY`m'WUfY 'Zcf']bX]j]Xi U`g']b'W ghc Xm" '7 i fVY`c g UWh]cbg'a Um'fU]gY'ei Ygh]cbg'UVci h'h\Y'YZZYWh]j YbYgg'c Z'h\YgY a YUgi fYg'UbX'k \Yh\Yf'gi ZZ]W]Ybh'cj Yfg][\h'YI]ghg']b'WcffYWh]cbU`ZUW]`]h]Yg"

 $C\ b\ Y' = Ym'Ugd\ Y\ Wh']b'h\ Yg\ Y'j\ U'i\ Uh]cbg']g'h\ Y''i\ b\ X\ YfghUb\ X]b[\ 'h\ Uh\ c\ ZZ]WYfg'WUb'ZUWY'g\ Yf]ci\ g'd\ Yb\ U'h]Yg'\ Zcf'k\]``Zi\ '`X\ Ydf]j\ Uh]cb'c\ Z'f][\ hg\ k\ \]'Y'UWh]b[\ 'i\ b\ X\ Yf'Wc\ cf'c\ Z'`Uk\ z'Ug'\ X]gW'\ gg\ Y\ X']b'h\ Y'8\ Yd\ Ufha\ Ybh c\ Z' \rightarrow gh]WY'[\ i\]X\ Y']b\ Yg'''H\]g'WUb']b\ Wi\ X\ Y'Wc\ bg\ Yei\ Yb\ W'g'\ Zcf'\ ZU]'i\ f\ Yg\ hc']b'h\ Yf][\ hg'c\ Z'Ub']b\ X]j\]Xi\ U'''\ 7i\ f\ Y\ c\ g'\ Yg\ WUd\ Y'f\ U]g\ Yg'\ g\ Yf\ C'\ Y\ Y]b[\ 'zc\ `ck\ Y\ X']b':\ `cf]X\ U\ g'\ Wc\ ff\ Wh]cb\ U'\ ZU\ W]']h]\ Yg'hc'\ df\ Ybh'gi\ W\ Yf\ UW\ Yg'\ Z'hfi\ gh''\ X'\ Ybh'gi\ W\ Yf\ YU\ Yg'\ Z''\ Ybh'gi\ W\ Yf\ YU\ Yg'\ Z''\ Ybh'gi\ W\ Yf\ YU\ Yg'\ Z''\ Yhfi\ Yh'g'\ X'\ Yf\ YU\ Yg'\ Z''\ Yhfi\ Yh'g'\ X'\ Yf\ YU\ Yg'\ Z''\ Ybh'gi\ W\ Yf\ YU\ Yg'\ Z''\ Yhfi\ Ybh'gi\ W\ Yf\ YU\ Yg'\ Z''\ Yhfi\ gh''\ Ybh'gi\ Y\ Yh'g'\ Z''\ Yhfi\ Yh''\ Yh''\$

]bW]XYbh"K]``h\]g'gYfjY'Ug'U'kU_Y!id'WU``Zcf'Zifh\Yf'hfU]b]b['UbXacb]hcf]b[3'Cf'k]``]h'VY'Vfig\YX'Ug]XY'Ug'U'aYfY'\]WWid']b'U Wcad`Yl'gmghYa3'H\YfYg'WYfhU]b`m'gcaYh\]b['hc'VY'gU]X'Zcf Yl Ua]b]b['h\Y'VU`UbWY'cZ'gUZYhm'UbX'gYW'f]hm']b'cif'jYfm'ckb WcffYWh]cbU``]bgh]hih]cbg"

: cf'h\cgY``cc_]b['hc'Zc``ck 'a cfY'cb'7i fVY`c g'WUgYž'UXX]h]cbU`
XYhU]`g'WUb'VY'Zci bX'cb'\]g'Vcc_]b['dU[Y'Uh'
FYWYbh`m6cc_YX"Wca "'K \Uh'h\YgY'XYj Y`cda Ybhg'a Um
i `h]a UhY`m'fYj YU`']g'mYh'hc'VY'gYYbž'Vi h'h\Y']a dcfhUbWY'cZ
UWWci bhUV]`]hm']b'`Uk YbZcfWYa Ybh'\Ug'bYj Yf'VYYb'WYUfYf"

8 Y hU]`g	
Cfh	@YY'7cibhmž:`cf]XUžiG5
EiY``Yb	• k k k "Zcl (bck "Wca
	fYVWbh`mVcc_YX"Wca
	• k k k "'i gh]\\\"[cj

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