

$H\ Y\ Zc\ W'\ g.\ < c\ k\ hc\]b\ WfY\ UgY\ mc\ i\ f\ m]Y\ Xg\]b\ \&$\&$) °

:]bX'ci h'\ck 'd\chcj c`hU]WgmghYa g'UfY'd`UbbYX'YZZ]W]Ybh`m UbX'k \]W\'ZYYX!]b'hUf]ZZg'Udd`m'Zfca '&\$&("'FYUX'a cfY'



8 Yi hgWX`Ub X`!`H\Y`i gY`c Z`d\chcj c`hU]WgmghYa g`fDJ`gmghYa gŁ\Ug`]bWfYUgYX`]b`fYWYbh`mYUfg`VYWUi gY`a cfY`UbX`a cfY\ci gY\c`Xg`UfY`hfm]b[`hc`a YYh`h\Y]f`YbYf[m`fYei]fYa Ybhg gi ghU]bUV`m"`5`WYbhfU``UgdYWh`c Z`]bghU``Uh]cb`]g`h\Y`XYg][b`UbXbUhi fY`c Z`h\Y`fcc Z"`<u>gi YX i f]Yf`</u>dc]bhg`ci h`h\Uh`fcc Zg`g\ci `X`VY`]b[cc X`WcbX]h]cbž`g]bWY`U`DJ`gmghYa `\Ug`U``]ZYgdUb`c Z`Ufci bX`&) mYUfg"'\downarrow Wi g]j Y`fcc Z`gi fZUWYg`h\Uh`UfY`U`][bYX`hc`h\Y`gci h\`UbXfYa U]b`Ug`g\UXck`!ZfYY`UfY`cdh]a U`"`5`hYfbUh]j Yg`hc`h\Ygci h\`Yugh`cf`gci h\kYgh`UfY`dcgg]V`Yž`Vi h`cZZYf``ck Yf`m]Y`Xg"`

:: cf'U'Zci f!dYfgcb'\ci gY\c`Xž'U'+\$'gei UfY'a YhYf'DJ 'gmghYa 'k]h\
U'bca]bU`ci hdi h'cZ'%' '_]`ck Uhhg']g'gi ZZ]W]Ybh'hc'Wcj Yf'h\Y'Ubbi U`
Y`YWhf]W]hm'fYei]fYa Ybh"' < ck Yj Yfž']h']g']a dcfhUbh'hc'hU_Y'mci f</pre>

ck b Y Y Whf] W]hm Wcbgi a dh]cb ']bhc 'U W Wci bhž g] b W 'h\ Y 'dfc Xi Wh]cb Ub X 'Wcbgi a dh]cb 'c ZhY b 'X c 'b ch'hU_Y 'd `U W ']b 'gmb W '9 gd Y W] U `m Xi f] b ['h\ Y 'X Umž a cf Y 'Y `Y Whf] W]hm c ZhY b 'ZU ``g 'h\ Ub '] g 'W ff Y b h`m f Y ei] f Y X ž 'k \] W '] g 'k \ m'U 'V UhhY f m'ghc f U [Y '] g 'U 'g Y b g] V `Y 'U X X] h] cb "H\ Y 'df] W g 'Zcf 'V UhhY f m'ghc f U [Y 'Uf Y 'V Y hk Y Y b ') \$\$ 'Ub X '% ž\$\$ Yi f cg d Y f _] `ck Uhh`\ ci f 'c Z 'ghc f U [Y 'W U d U W] h m'Ub X 'Uf Y 'Zf Y Y X 'Zf ca 'J 5 H" ''

ZYYX!]b hUf]ZZ'UbX'YWcbca m

TH\Y'ZYYX!]b'hUf]ZZ']g'U'Wfi W]U\'ZUWhcf'Zcf'h\Y'YWcbca m'cZ'U'DJ gmghYa "'7i ffYbh`mž'h\Y'fYa i bYfUh]cb'Zcf'dck YfYX'Y`YWhf]W]hm']g Ufci bX'Y][\h'WYbhg'dYf'_]`ck Uhh'\ci fž'k\]W\'a U_Yg']h'a cfY Z]bUbW]U``m'UhhfUWh]j Y'hc'dfYZYfUV`m'i gY'h\Y'gY`Z'![YbYfUhYX Y`YWhf]W]hm'mci fgY`Z']bghYUX'cZ'ZYYX]b[']h']bhc'h\Y'bYhk cf_" 5\W\cfX]b['hc''_6U\Wcb'dck Yf'd`Ubh&(''\z''h\Y'ZYYX'!]b'hUf]ZZ'\Wb'VY'i dhc', "%'\WYbhg'dYf'_K\'Zcf'dUfh]U`'ZYYX]b[''UbX'i d'hc'%' '\WYbhg'k\YbZ'``m'ZYYX'!]b\z'h\Y'fYa i bYfUh]cb'k]``'fY[i `Uf`m'XY\WfYUgY'Vm'% dYf\Wbh'Yj Yfm'g]l'a cbh\g"'H\]g'fY[i `Uh]cb'\\cb\W'fbg'd`Ubhg'i d'hc\%\"_K dz'k\]'Y'c`XYf'gmghYa g'fYhU]b'h\Y'dfYj]ci g'gYbhYb\W'g"'

 $\label{thm:converse} $$ \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}$

`VU`Wcbm'dck Yf'd`Ubhg'!'Ub'U`hYfbUh]j Y'Zcf hYbUbhg'

"VU`Wcbmidck Yfid`Ubhgž'U`gci_bck biUgid`i [!]bigc`UfigmghYa gžicZZYfhYbUbhgiUbii bWca d`]WUhYXik Umihcii gYigc`UfiYbYf[m"iH\YgYgmghYa gi\Uj YiUia Ul]a i a iU`hYfbUh]b[iWiffYbhicihdihicZi, \$\$k UhhgiUbXiUfYifY`Uh]j Y`miYUgmihci]bghU``ž'Vihih\Yi`UbX`cfXfgWcbgYbhi]qifYei]fYXi]bicfXYfihciVYiUV`Yihcii gYi]h"i9l WYqg

Y`YWhf]W]hm`WUb`U`gc`VY`ZYX`]bhc`h\Y`bYhk cf_ž`Vi h`h\Y fYa i bYfUh]cb`]g`cZhYb``ck Yf`h\Ub`k]h\`fccZ`gmghYa g"`\#i`]g h\YfYZcfY`]a dcfhUbh`hc`k Y][\`h\Y`UXj UbhU[Yg`UbX`X]gUXj UbhU[Yg VYZcfY`]bghU``Uh]cb"

**Jogi a a Ufmži]h W b VY g U]X h \ Uh h \ Y i]b g h U ``Uh]c b c Z d \ c h c j c `h U] W g m g h Y a g 'Ub X h \ Y i g Y c Z h \ Y 'Z Y Y X!] b 'h Uf] Z z c Z Y f 'Ub 'Uhh f U Wh] j Y k Um h c a Y Y h m c i f c k b 'Y `Y Wh f] W]h m f Y e i] f Y a Y b h g 'g i g h U] b U V `m 'Ub X 'Uh h \ Y g Ua Y 'h] a Y 'W c b h f] V i h Y h c 'h \ Y 'Y b Y f [m h f Ub g] h] c b " K \ Y h \ Y f V m c d h] a U ``f c c Z i g Y c f 'g i d d c f h Z f ca 'V Uh h Y f m g h c f U [Y ž h \ Y d Y f g d Y Wh] j Y 'Z c f 'f Y b Y k UV `Y 'Y b Y f [] Y g 'f Y a U] b g 'd f ca] g] b [" '

| 8 YhU]`g | |
|----------|--|
| Cfh | 8 Yi hgWX`UbX |
| EiY``Yb | • k k k "gi YX_i f]Yf"XY |
| | VU`_cb_fUZhk Yf_&("cf[|
| | k k k "YbYf[]Y!YI dYfhYb"cf[|

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