6fUXYbhcbAUb5ffYghYXZcfG\cW_]b[5b]aU`7fiY`hm5[U]bgh7Uh

5 a Ub ']b '6 fUXY b hc b ž'A Ub UhYY '7 c i b hmž' ZUWYg'W Uf [Yg' Zc f Ub]a U` 'Wfi Y`hm' UZhYf'U' WUh'k Ug' Zc i b X ']b '1 fY X ž'gd Uf_]b [

Wc a a i b]hm' Wc b WY fb"



6fUXYbhcbž: `cf]XUžI G5 !! ♣ 'U'hfci V`]b[']bW]XYbhcZ'Ub]a U`
UVi gY']b'6fUXYbhcbž: `cf]XUž'U'a Ub'\Ug'VYYb'UffYghYX'Zc``ck]b[
U``Y[Uh]cbg'cZ'Wfi Y`hm'hck UfXg'U'WUh"'FYdcfhg']bX]WUhY'h\Uh'h\Y'
6fUXYbhcb'JYhYf]bUfm'< cgd]hU`'X]gWcj YfYX'U'WUh'k]h\']b'i f]Yg
Wcbg]ghYbh'k]h\'V`i bh'ZcfWY'hfUi a U"'H\Y'WUh g'ck bYf'fYhi fbYX
\ca Y'hc'Z]bX'\Yf'dYh']b'i fYXž'WU]a]b['h\Uh'\Yf'VcmZf]YbXž
&*!mYUf!c`X'?Yg\Ui b'K]``]Ua gž'\UX'h\fck b'h\Y'WUh'U[U]bgh'U
Vf]W_'k U``"</pre>

6fUXYbhcb 'Dc`]WY '8 Yd Ufha Ybh'fl6 D8 Ł'hcc_'gk]Zh'UWh]cbž'UffYgh]b[K]``]Ua g'Zcf'Ub]a U`'Wfi Y`hm'''H\Ub_Zi ``mž'h\Y']b''i fYX'ZY`]bY']g W'ffYbh`m'fYWcj Yf]b[ž'Vi h'h\]g']bW]XYbh'fU]gYg'Wf]h]WU`'ei Ygh]cbg UVci h'Ub]a U`'k Y`ZUfY']b'ci f'Wca a i b]hm'''H\Y'6D8'\Ug'i f[YX'h\Y

 $\label{thm:div} \mbox{di V^*} \mbox{Whc `fYdcfh'Ubm'gi gdYWhYX'WUgYg'cZ'Ub]a U^* Wfi Y^* hmži bXYf`]b]b['h\Y']a dcfhUbW'cZ'fYa U]b]b['j][]`Ubh''$

$H\ Y F c Y c Z J Y h Y f] b U f m 7 U f Y$

J Y hY f]b Ufm' WUfY']g'b ch'c b`m' Wfi W]U`]b'h\Y'UZhY fa Uh\'c Z'UVi gY/']h g j]hU`Zcf'cj Y fU```Ub]a U``\YU`h\"'5'j Y hY f]b Ufm'bi hf]h]c b]ghž'k \c gd Y W]U`]n Y g']b'hU]`c f]b['X]Y h'd`Ub g' Zcf'd Y hgž' WUb'Y bgi fY'h\Uh'Y j Y fm Ub]a U``fY WY]j Y g'h\Y'bi hf]h]c b']h'b Y Y X g' Zcf'U'\YU`h\m'`]ZY"'H\Y gY bi hf]h]c b'YI d Y fhg'UfY'd]j c hU`ž'Y gd Y W]U``m'Zcf'd Y hg'gi ZZY f]b['Zfca]``b Y gg Y g'gi W\'Ug'W\fcb]W_]X b Y m'ZU]`i fY ž'Ug'h\Ym'Zcfa i `UhY gd Y W]U`]n Y X'X]Y hg'h\Uh'WUb'g]['b]Z]WUb h`m']a dfcj Y'Ub'Ub]a U` g ei U`]hm'c Z'`]ZY"

: i fh\ Yfa cfYž'j YhYf]bUfm'gi f[Ycbgž'k \ Yh\ Yf'h\ YmfY'ZcW'gYX'cb cfh\ cdYX]Wg'cf'gcZh'h]ggi Yž'dYfZcfa 'YggYbh]U`'gi f[Yf]Yg'h\ Uh'WUb XfUa Uh]WU``m'U`hYf'U'dYh g'Zi hi fY"'Cfh\ cdYX]Wgi f[Ycbg'\ UbX`Y Wca d`YI 'dfcWYXi fYg'`]_Y'fYdU]f]b['ZfUWhi fYg'cf'dYfZcfa]b[Ufh\ fcgWcd]W_bYY'gi f[Yf]Ygž'k \]`Y'gcZh'h]ggi Y'gi f[Ycbg'a UbU[Y Ya Yf[YbWm'dfcWYXi fYg'h\ Uh'WUb'gUj Y'`]j Yg"'Gi W\ YI dYfh]gY']g]bj U`i UV`Y']b'Vch\ 'Yj YfmXUm'gWybUf]cg'UbX']b'WUgYg'cZ'UVi gY"

Di V`]WDYfWYdh]cbg'cZ'5b]a U`K Y`ZUfY

FYWWbhighi X]YgifYj YU``]bhf][i]b[i]bg][\hgi]bhci\ck ih\Yidi V`]WdYfWW]j YgiUb]a U``k Y`ZUfYicf[Ub]nUh]cbgiUbXih\Y]fi]a dUWhicbidYh k Y``!VY]b["'5'gi fj Ym'WcbXi WhYXik]h\'%ž\$\$\$I"G"'fYg]XYbhg UggYggYXih\Yi]bZi YbWYicZij Uf]ci gicf[Ub]nUh]cbgi]bidfca ch]b[Ub]a U``WUfY"'5WWcfX]b[ihcih\YiZ]bX]b[gžh\Yi5a Yf]WUbiGcW]Yhm Zcfih\YiDfYj Ybh]cbicZifi Y`hmihci5b]a U`gifBGD75Łik UgfUb_YXiUgih\Yia cghi]a dUWhZi`žiZc``ck YXiWcgY`miVmih\Yi<ia UbYGcW]YhmicZih\YiIb]hYXiGhUhYqifk GIGŁ"

➡hYfYgh]b[`mžh\Y'ghi Xm'U`gc'\][\`][\hYX'h\Uh') - i 'cZ'fYgdcbXYbhg
ck bYX'U'dYh'Uh'h\Y'h]a Y'cZ'h\Y'gi fj Ym"'5a cb['h\YgY'dYh'ck bYfgž
, +i ']XYbh]Z]YX'h\Ya gY`j Yg'Ug'h\Y'df]a Ufm'WUfYhU_Yfg'cZ'h\Y]f
Ub]a U`g"'H\]g'Ya d\Ug]nYg'U'ghfcb['dYfgcbU`'Wca a]ha Ybh'hc'dYh
k Y`ZUfYž'gi [[Ygh]b['h\Uh']bX]j]Xi U`g'UfY'[YbYfU``m'_YYb'cb

H\Y'gi fj Ym'fYgi `hg'U`gc'fYj YU`YX'h\Uh'k\]`Y'a Ubm'dYh'ck bYfg ZfYei Ybh`m'hU_Y'h\Y]f'Xc[g'f) \$1 & UbX'WUhg'f(%1 & Zcf'Ubbi U`j YhYf]bUfm'j]g]hgž'h\YfY g'gh]``'g][b]Z]WUbh'fcca 'Zcf']a dfcj Ya Ybh'' FU]g]b['Uk UfYbYgg'UVci h'h\Y']a dcfhUbWY'cZ'fY[i `Uf'j Yh'W\YW_! i dg'WUb``YUX'hc'YUf`]Yf'XYhYWh]cb'cZ'\YU`h\']ggi Ygž'dchYbh]U``m dfYj Ybh]b['WUgYg'`]_Y'h\Uh'cZ'h\Y'UVi gYX'WUh']b'6fUXYbhcb''

5g'ci f'Wca a i b]hm'WcbhYa d`UhYg'h\Y'fYWYbh'X]ghi fV]b['Yj Ybhgž]h g'WYUf'h\Uh'j][]`UbWYžYXi WUh]cbž'UbX'fcVi gh'j YhYf]bUfm'WUfYd`Um'Wf]h]WU`'fc`Yg']b'gUZY[i UfX]b['h\Y'k Y``!VY]b['cZ'ci f'VY`cj YXdYhg"'K Y'a i gh'k cf_'hc[Yh\Yf'hc'Ybgi fY'U'gUZYf'Ybj]fcba Ybh'Zcf U```Ub]a U`gž'dfca ch]b['Wca dUgg]cb'UbX'fYgdcbg]V`Y'ghYk UfXg\]d]b'6fUXYbhcb'UbX'VYmcbX"

: cf'UbmcbY'bYYX]b['j YhYf]bUfm'Ugg]ghUbWYž'Z]bX]b['U'ei U`]Z]YX
dfcZYgg]cbU``]g'YUg]Yf'h\Ub'Yj Yf"'7\YW_'ci h'`cWU```]gh]b[g'cb'HchU`
J Yh'Zcf'cdh]cbg'h\Uh'gi]h'mci f'dYh g'bYYXgž'Zfca 'fci h]bY'W\YW_!
i dg'hc'gdYW]U`]nYX'WUfY"

8 YhU]`g	
Cfh	6fUXYbhcbž: `cf]XUž'l G5
EiY``Yb	kkk"UVWUWh]cbbYkg"Wca
	hc hU`"j Y h
	• da WbW]"b`a "b]\"[cj

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