

5i Vi fb 'Wca a]h'< YnY_]U\ '< Uff]gž U'hcd 'YX[Y'fi g\Yfž'j]g]hg : `cf]XU'UbX'HYbbYggYYž'_YYd]b['cdh]cbg'cdYb'Zcf'&\$&* gYUgcb"



<ibhgj]``Yž'5`UVUa Už'I G5'!:5i Vi fb'I b]j Yfg]hm'\Ug'a UXY'U
g][b]Z]WUbh'gd`Ug\ ']b'h\Y'fYWfi]h]b['gWYbY'k]h\ 'h\Y'Wca a]ha Ybh'cZ
<YnY_]U\'<Uff]gž'U'bchUV`Y'Zci f!ghUf'YX[Y'fi g\Yf'Zfca '<i bhgj]``Yž
5`UVUa U"'5g'fYdcfhYX'Vm'G="Wca ž'<Uff]g']g'bch''i gh'Ubm'd`UmYf/
\Y g'fUb_YX'Ug'F]j U`g 'Bc"'%%'YX[Y'fi g\Yf'dfcgdYWh']b'h\Y'bUh]cb
UbX'h\Y'\][\Ygh!fUhYX'dfcgdYWh']b'5i Vi fb g'&\$&*'fYWfi]h]b[
WUgg"'<]g'Wca a]ha Ybh'hcc_'d`UWY'cb'**\m'&+ž'&\$&(ž'Xi f]b[
5i Vi fb g'6]['7Uh'K YY_YbXž'U'df]a Y'fYWfi]ha Ybh'Yj Ybh'U]a YX'Uh
g\ck WUg]b['h\Y'i b]j Yfg]hm'hc'dchYbh]U`'Uh\`YhYg"</pre>

 $\label{thm:complete} $$ Vfch\Yfž'A\ U`UW\&\]\check{z}']g'a\ U_]b[\ 'k\ Uj\ Yg'Ug'Ub'cZYbg]j\ Y\ ``]bY'hfUbgZYfhc'5i\ Vi\ fb'Zfca\ '5i\ gh]b'DYUm''<Y\ g'bch'^{}\ gh'`cc_]b[\ 'Zcf'U'gW&cc`/\ Yg'`cc_]b[\ 'Zcf'h\Y'f][\ h'Z]hž'Ya\ d\ Ug]n]b[\ 'h\Y']a\ dcfhUbW''cZ $$ Vi\]`X]b[\ 'fY`Uh]cbg\]dg'k\]h\]b'h\Y'WcUW&]b[\ 'ghUZZ'''<]g'WcbbYWh]cbg $$ k]h\ '5i\ Vi\ fb\ g'XYZYbg]j\ Y'YbXg'WcUW&'\sig\ '5`Xf]X[\ Y'UbX'XYZYbg]j\ YhUW_`Yg'WcUW&'JcbhfY``'?]b[!K]``]Ua\ g'\Uj\ Y'WYUf`m``YZh'U``Ugh]b[]a\ dfYgg]cb''$

DchYbh]U`7ca dYh]hcfq

<ck Yj Yfž'h\Y``UbXgWUdY`cZ'Wc``Y[Y'ZcchVU```fYWfi]h]b[']g'cZhYb'Ug
hi fVi `Ybh'Ug']h']g'Yl W]h]b['"<Uff]g'fYWbh`mj]g]hYX'h\Y'l b]j Yfg]hm
cZ: `cf]XUž'U'hf]d'h\Uh'\Ug'`YX'hc'gdYW'`Uh]cb'UVci h'\]a 'Z]dd]b[
\]g'Wca a]ha Ybh''K\]'Y'\Y'fYa U]bg'Wca a]hhYX'hc'5i Vi fbž'\Y
bchYX'h\Uh'Vch\': `cf]XU'UbX'HYbbYggYY'UfY'WcbhYbXYfg'h\Uh'\Uj Y
d]ei YX'\]g']bhYfYgh''8i f]b['\]g'h]a Y']b'; U]bYgj]``Yž\Y'\UX'h\Y
W\UbW'hc'a YYh'k]h\': `cf]XU g'\YUX'WcUW\'6]``m'BUd]Yf'UbX'YX[Y
fi g\Yfg'WcUW\'A]_Y'DYhYfgcbž'Vch\'cZ'k\ca'a UXY'\]a 'ZYY`
\][\`m'df]cf]h]nYX'''<Uff]g'UW_bck `YX[YX'h\Uh': `cf]XU'a UXY
dfc[fYgg'Xi f]b['\]g'j]g]hž'h\ci [\`\Y'X]X'bch'[c']bhc'gdYW]Z]Wg
fY[UfX]b['h\Y]f'W\UbW'gž'ghUh]b[ž'6i]`X]b['fY`Uh]cbg\]dg']g
Wfi W]U`'Zcf'a Y']b'h\Y'fYWfi]ha Ybh'dfcW'gg''</pre>

BchicbYihcifig\i]bhciXYW]g]cbgž'<Uff]gid`Ubgihci_YYdi\]g

fYWfi]ha YbhicdYbiibh]ig][b]b[iXUmi]bi8YWWa VYf"i<Y giUifYUXm
gYhihcij]g]hiHYbbYggYYi]bihk cik YY_giUbXiU]a gihciUhhYbXi[Ua YgiUh
U``ih\fYYigWkcc`giXif]b[ih\YiidWca]b[igYUgcb"iK\]iYi\]gi`cmU`hm
hci5i Vifbi]gighfcb[dUfh`miXiYihci\]giVfch\Yf gidfYgYbWY
h\YfY \YiibXYfghUbXgih\Uhi_YYd]b[i\]gicdh]cbgicdYbiWciiXi`YUX
hcih\YiVYghicihWca YiZcfi\]giZihifY"

5i Vi fb g 7ca dYh]h]j Y 9X[Y

 $H\Y`5i\Vi\ fb`H][\ Yfg`UfY`i\ bXYf`dfYggi\ fY`Ug`\YUX`WcUW`<i [\ \ : fYYnY`ZUWYg`U`Wfi W]U``hi fb]b[`dc]bh`k]h\`U`fYWcfX`cZ`%%!%(`cj Yfhk c`gYUgcbg"`5g`7c``Y[Y`: cchVU```BYhk cf_`ci h`]bYgž`5i Vi fbZ]b]g\YX`h\Y`&$&(`gYUgcb`Uh`)!+ž`d`UW]b[`h\Ya`%(h\`]b`h\Y`\][\`mWca dYh]h]j\Y`G97`ghUbX]b[g"'<]g`Wca a]ha Ybh`\Ug`\Y`dYX`dcg]h]cb$

5i Vi fb g'&\$&* 'WUgg'Ug'W' ffYbh`m'fUb_]b['Zci fh\ 'bUh]cbU``mž ZYUhi f]b['Z]j Y'ch\Yf'Zci f!ghUf'fYWfi]hgž'\][\`][\h]b['h\Y'dchYbh]U` hi fbUfci bX'Zcf'h\Y'ghfi [[`]b['dfc[fUa"

 $5a \ cb[\ 'h\ Y'_Ym'fYWfi\]hg'k\]h\ 'dchYbh]U``h]Yg'hc'5i \ Vifb']bWi \ XYk \ [XY'fYW]j \ Yfg'8 \ Yj \]b' 7 \ UfhYf' Ub X'8 \ Yb \ U]f]i \ g'; \ fUmž' Vch\ 'ghUb X]b[\ cj \ Yf'*' \ ZYYh'hU``ž' Ub X'`]b YV UW_Yfg'G\ UX Uf]i \ g' Hcc X`Y' Ub X' \ \ \ \ JA \]W\ UY`; \ UffYhhž'Y UW\ 'fYWc[b]nY X']b'h\ Y'hcd'hYb' Uh'h\ Y]f' fYgd YWh]j \ Y \ dcg]h]cbg'' \ 5 XX]h]cbU``mž'Z]j \ Y!ghUf'fYWW]j \ Yf'Hf]ghUb'? \ Ymg'\ Ug'a \ UXY \ 5 i \ Vifb'cbY'cZ'\]g'Z]bU`]ghg'k\]`Y'h\ Y'Bc'''%'fYWfi \]hž'N]cb''9`YYž'\ Ug \ g\ XYXi `YX'U'j \]g]h'''5 i \ Vifb \ g'fYWfi \]h]b['ghfUhY[m'UddYUfg'hc'VY \ g\]Zh]b['dcg]h]j \ Y`mž'Ya \ d\ Ug]n]b['U'V`YbX'cZ'hU`Ybh'UbX'h\ Y'f][\ h \ W\ UfUWhYf'Z]h''$

8 Ygd]hY'h\Y'i bW'fhU]bhm'Ufci bX'\]g'XYW]g]cbž'<Uff]g g'ZcW' g fYa U]bg'WYUf"'<Y g'Wca a]hhYX'hc'YI WY'ž'k\Yh\Yf'Ug'U'H][Yf'cf dchYbh]U``m'Ug'U'; Uhcf'cf'U'Jc`i bhYYf"'6i h'Zcf'bck ž'k]h\'h\Y a ca Ybhi a 'Vi]'X]b['Ufci bX'\]g'bUa Yž'h\Y'Zi hi fY'`cc_g'Vf][\h'Zcf < YnY_]U\'<Uff]g'UbX'h\Y'5i Vi fb'H][Yfg'VUg_YhVU``'dfc[fUa"' K Uf 9U[`Y' \Y'Vc`X`m'dfcWU]a YXž'g][bU`]b['\]g'W' ffYbh'U``Y[]UbW'ž Vi h'h\Y'fcUX'U\YUX'dfca]gYg'a cfY'hk]ghg'UbX'hi fbg']b'h\]g Wca dYh]h]j Y'fYU`a"

8 Y hU]`g	
Cfh	<i]``yž'5`uvua="" bhgj="" g5<="" th="" už'l=""></i>
Ei Y``Yb	• k k k "g]"Wca
	• &(+gdcfhg"Wca
	Wc``Y[YZcchVU``bYhkcf_"Wca

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