6fYj UfX 7ci bhm G\Yf]ZZ K UmbY \(\frac{1}{2}\) Ym XYZYbXg``Uk YbZcfWYa Ybh/ \(\frac{1}{2}\) - \(\frac{1}{2}\) ghUbW cb dfchYghgž gdUf_]b[Wcbhfcj Yfgm k]h\ dcd ghUf @nnc g WU]a g"



6fYj UfX '7ci bhmž: `cf]XUž'I G5'!'6fYj UfX'7ci bhm']g']b'h\Y gdch'][\h'Zc``ck]b[g\Ufd'Wca a Ybhg'Zfca 'G\Yf]ZZ'K UmbY'\frac{1}{2} Ym fY[UfX]b[idWca]b[dfchYghg'UbX'h\Y'gi VgYei Ybh'VUW_`Ug\Zfca dcd'ghUf'@]nnc"'\frac{1}{2} gh'U\YUX'cZ'h\Y'\][\`m'Ubh]W]dUhYX' Bc'?]b[g dfchYghgž'\frac{1}{2} Ym'\Y'X'U'bYk g'WcbZYfYbW'k]h\:`cf]XU'5hhcfbYm \tag{1} YbYfU'\Ja Yg'I h\a Y]Yfž'k\YfY'\Y'k UfbYX'dfchYghYfg'U[U]bgh j]c'Ybh'UWh]cbg'hUf[Yh]b[''Uk 'YbZcfWa Ybh''<Y'a UXY']h'WYUf'h\Uh Ubm'j]c'Ybh'WcbXi Wh'k]``'YUX'hc'gYj YfY'WcbgYei YbW'gž'k\]W\ Wci `X']bWi XY'\cgd]hU`]nUh]cb'UbX''U]``h]a Y'': cl'') 'Cf`UbXc fYdcfhg'h\Uh'\frac{1}{2} Ymg'gdYW]Z]Wk Ufb]b[g']bWi XYX'dc]bh]b['[ibg'cfh\fck]b[cV'YWhg'Uh'XYdi h]Ygž'UWh]cbg'k\]W\ \Y']bX]WUhYX'Wci `X

#DifygdcbgYinci# Ymg'Wca a Ybhgž@nncihcc_ihci#bghU[fUa ž
Yl dfYgg]b[i\Yfici hfU[YiUbXiWU]a]b[ih\Uhih\Yig\Yf]zzh\fYUhYbYX
hci_]``dYUWYZ ``dfchYghYfg"'G\YiW\UfUWhYf]nYXi# Ymg'fYa Uf_g'Ug
i bWcbgh]hi h]cbU``UbXiUggYfhYXih\Uhih\Ym'YcdUfX]nYXi:]fgh
5a YbXa Ybhif][\hg"' FYa Ya VYfinci fif][\hgž i@nncii f[YXi\Yf
Zc``ck YfgžYa d\Ug]n]b[ih\YibYYXiZcfjch]b[iUbXidfchYWh]b[icbY g
Wcbgh]hi h]cbU``ZfYYXca g"'<ck Yj Yfžr# YmiX]Xibchi\ciXiVUW_i]b
XYZYbX]b[i\]a gYiZžghUh]b[i\Yik Ugii bZUa]`]Ufik]h\i@nnciUbX
Wf]h]W]nYXi\YfiZcfia]gfYdfYgYbh]b[i\]gighUhYa Ybhg"'<YiWUf]Z]YX
h\Uhi\]gik Ufb]b[gik YfYiX]fYWhYXiUhih\cgYi]bhYbX]b[ihciYb[U[Yi]b
j]ciYbWYžbchiUhidYUWYZ ``XYa cbghfUhcfg"'5WWcfX]b[ihci#Ug_"WUž
h\]giYl W\Ub[Yi\Ugi][b]hYXiU`\YUhYXiXYVUhYiUfci bXih\YibUhi fYicZ
dfchYgh'UbXih\Yi]bYVYhk YYbidYUWYZ ``UggYa VimiUbXij]c'YbWY"

H\Y Bc?]b[g DfchYghg

: `cf]XU g`fYWbh` Ubh]!f]ch ``Uk `dfcj]XYg`U`ghf]b[Ybh`ZfUa Yk cf_h\Uh`WUgg]Z]Yg`f]chg`UbX`a UbXUhYg`h\Uh`]bX]j]Xi U`g`UffYghYX`Zcfib`Uk Zi ``UggYa V`m`UfY`fYei]fYX`hc`fYa U]b`]b`W`ghcXm`k]h\ci h`VU]`ibh]``h\Y]f`Z]fgh`Wci fh`UddYUfUbW\"`DfchYghYfg`a i gh`bUj][UhYfYghf]Wh]cbg`fY`UhYX`hc`h]a Yž`d`UWYž`UbX`a UbbYfž`Ybgi f]b[`h\Ym[Uh\Yf`]b`XYg][bUhYX`di V`]WUfYUgž`gi W\`Ug`g]XYk U`_gž`dUf_gž`UbXghfYYhg"; cj Yfbcf`Fcb`8YGUbh]g`\Ug`fYUggi fYX`h\Y`di V`]Wh\Uh`Uk `YbZcfWYa Ybh`]g`dfYdUfYX`Zcf`h\Y`Ubh]W]dUhYX`dfchYghg`UbX`k]``bch`hc`YfUhY`Ubmj]c`YbWY U`WYUf`a YggU[Y`Ua]Xgh`h\Y`Vi nn]b[ZYfj cf`Ufci bX`h\Y`Yj Ybhg"

5g'h\Y'dfchYghg'UddfcUW\ž'W]h]nYbg'UbX'cZZ]W]U`g'U`]_Y'UfY WcbhYa d`Uh]b['h\Y']a d`]WUh]cbg'cZ'\(\frac{1}{2}\) Ymg'ghUhYa Ybhg'UbX'@]nnc g fYgdcbgYg"'\(\frac{1}{2}\) g'U'Wcbj YfgUh]cb'h\Uh'i bXYf`]bYg'h\Y'cb[c]b[ghfi [['Y'VYhk YYb'h\Y'f][\h'hc'dfchYgh'UbX'h\Y'bYYX'Zcf'di V`]W gUZYhm cbY'h\Uh'fYa]bXg'i g'U``'h\Uh'h\YfY g'a i W\'hc'VY'gU]X'Zcf h\Y'VU`UbWY'VYhk YYb'a U]bhU]b]b['cfXYf'UbX'dfYgYfj]b[]bX]j]Xi U`'ZfYYXca g"

8 YhU]`g	
Cfh	6fYj UfX 7ci bhmž: `cf]XUžI G5
EiY``Yb	• k k k "Zcl') cf`UbXc"Wca
	• k k k "]Ug_"WU
	• k k k "i gUhc X Um" Wca

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