6fYj UfX '7ci bhm'GcUfg. '5YfcgdUWY '6cca : i Y`g'>cVg'UbX'FcW_Yh'@Ui bWXYg°



 $H\Y`Xf]j]b[`ZcfWYg`VY\]bX`h\]g`UYfcgdUWY`Vcca `]bWi XY`a U`cfd`UmYfg``]_Y`GdUWYL ž`6`i Y`Cf][]bž`@ < Uff]g`HYW\bc`c[]Ygž$

 $Bcfh\fcd\fi a a Ub\check{z}`UbX`@cW_\YYX`A Ufh]b"`GdUWYL`]g`]b`h\Y a]Xgh`cZ`Wcbghfi Wh]b[`]hg`GhUfg\]d!Gi dYf`< YUj m`fcW_Yh`gmghYa `Uh h\Y`?YbbYXm`GdUWY`7YbhYf`UbX`7UdY`7UbUj YfU``GdUWY`: cfWY GhUh]cb"`K]h\`Ub`YmY!dcdd]b[`]bj Ygha Ybh`cZ`` %", `V]``]cb\check{z}`h\Ym d`Ub`hc`Vf]b[`UVci h`* $$`bYk``^cVg`Vm`&$' $"`A YUbk \]`Yž`6`i Y Cf][]b`]g`a U_]b[`k Uj Yg`k]h\`cj Yf`` ' `V]``]cb`dci fYX`]bhc`: `cf]XUž Ya d`cm]b[`a cfY`h\Ub`' ž$$$`ghUZZ`Uh`U`gdfUk`]b[`fcW_Yh`ZUWhcfm cb`A Yff]hh`=g`UbX"$

A Ubi ZUWhi f]b['A ca Ybhi a

FcW_Yh@UibWXYgUbX:ihifYDfc^YWh]cbg

 $GdUWF: `cf]XU'ghUbXg'fYUXm'hc'gi ddcfh'h\]g'g_mfcW_Yh]b[']bXi ghfm' 7`cg]b['&$&('k]h\ 'U'a Ugg]j Y'%, +!dfc'YWh'd]dY`]bY'j U`i YX'Uh'` * ", V]``]cbž'h\ Ym'Ya d\ Ug]nYX'h\ Y]f'Wca a]ha Ybh'hc'gc`]X]Zm]b[': `cf]XU Ug'U'j]hU`'d`UmYf']b'UYfcgdUW''Wca a YfW'''K]h\ 'fYWcfX'bi a VYfg g\ ck]b['- $'`Ui bW\ Yg']b'&$&('UbX'cj Yf'%z' $$'dUm`cUXg hfUbgdcfhYXz'h\ Y'ghUhY']g'\]hh]b['bYk 'a]`YghcbYg'Uh'Yj Yfm'hi fbz'Ug bchYX'Vm'GdUW'': `cf]XU"$

 $\label{lem:decomposition} D`Ubg``UfY``UZcch``Zcf`YI`dUbg]j Y`]a dfcj Ya Ybhg`hc`]bZfUghfi Whi fYž k \]W\ `]bWi XYg``Wfi W]U``]bj Ygha Ybhg`hchU`]b[`bYUf`m`` ' `V]``]cb`hc \\c`ghYf`gdUW\ `hfUbgdcfhUh]cb``WUdUV]`]h]Yg"`6m`&$') ž: `cf]XU`k]`` bYYX`hc`a UbU[Y`h\Y`Ua V]h]ci g`[cU``cZ'hfUbgdcfh]b[') ž$$$`a Yhf]W \hcbg`cZ``WUf[c`Ubbi U``m`hc`gdUW\ U`hUg_`h\Uh`WU``g`Zcf`]bbcj Uh]j Y gc`i h]cbg`UbX`YI hYbg]j Y`gi ddcfh`Zfca `ghUhY`UbX``c`WU``Ui h\cf]h]Yg"$

5g'h\Y'GdUW'7cUgh'Wcbh]bi Yg']hg'i dk UfX'hfU'YWhcfmž'`cWU`fYg]XYbhg'UfY'U`fYUXm'k]hbYgg]b['WkUb[Ygž'Zfca 'bYk'\ci g]b[XYj Y`cda Ybhg'hc'Yl W]h]b['Wca a YfW]U`'YghUV`]g\a Ybhg''K]h\'h\]g XmbUa]WYbj]fcba Ybhž'cbY'WUb h'\Y`d'Vi h'ZYY`'U'gYbgY'cZ Ubh]W]dUh]cb k\Uh'h\f]``]b['YbXYUj cfg'`]Y'U\YUX'Zcf'6fYj UfX 7ci bhm3'H\YfY g'bc'Xci Vh'h\Uh'h\Y'VYgh']g'mYh'hc'Wca Yž'Ug': `cf]XU WUd]hU`]nYg'cb']hg'i b]ei Y'dcg]h]cb'Ug'h\Y'bUh]cb g'cb`m'ghUhY'hc cZZ]W]U``m'XYg][bUhY'gdUWY'Ug'U'a cXY'cZ'hfUbgdcfhUh]cb"

8 YhU]`g	
Cfh	6fYj UfX 7ci bhmž: `cf]XU
EiY``Yb	• k k k "bYk g! ^ci fbU`cb`]bY"Wca
	gdUWYWcUghYXW'cf[
	k k k "gdUWYZ`cf]XU"[cj

6 Ygi W Yb G Y i bg Ui Z a Y]b!k]Yb "b Yh