## HfU[]W9Uf`m`A cfb]b[ '7fUg\ '7`U]a g'Mci b[ 7fYghj]Yk 'A chcfWmW]gh

5 a chcfWmW]gh'Zfca '7fYghj]Yk ž: @ž'k Ug'\_]``YX`]b'Ub'YUf`m a cfb]b['UVW]XYbh']b'C\_U`ccgU'7ci bhm'cb'≯`m'\*ž'&\$&)"



GhUhY 'F cUX ', ) ž'7fYghj ]Yk ž': `cf]XUž'I G5 '! '=b 'h\Y'ei ]Yh'\ci fg cZ'YUf`m'Gi bXUm'a cfb]b[ ž'hfU[ YXm'ghfi W\_']b 'C\_U`ccgU'7ci bhmž : `cf]XUž'Ug'U'&, !mYUf!c`X'a chcfWhW]gh'Zfca '7fYghj ]Yk '`cgh'\]g'`]ZY ]b'U'\Uffck ]b[ 'UWW]XYbh" H\Y']bW]XYbh'i bZc`XYX'g\cfh`m'UZhYf'&.' \$ 5A 'cb'GhUhY 'F cUX', ) 'k \Yb'h\Y'a chcfWhW]gh'k Ug'UhhYa dh]b[ 'hc a Yf[ Y'cbhc'GhUhY 'F cUX'%&' "'5WVcfX]b[ 'hc': cI %\$ 'BYk gž'h\Y f]XYf``cgh'Wcbhfc``k \]'Y'bUj ][ Uh]b[ 'h\Y'YbhfUbWY 'fUa d'UbXž XYgd]hY 'YZzcfhg'hc'fY[ U]b Wcbhfc`ž'cj YfWcffYWhYX'UbX'Wc``]XYX'k ]h\ U'[ i UfXfU]`"'H\Y'a chcfWhWY'gi VgYei Ybh`m'cj Yfhi fbYXž'V`cW\_]b[ Vch\``UbYg'cZ'hfUj Y``UbX'a Uf\_]b[ 'mYh'Ubch\Yf'i bZcfhi bUhY WXUdhYf']b': `cf]XU g'hfci V`]b[ '\]ghcfm'cZ'a chcfWhWY'UWW]XYbhg"

5g'h\Y': `cf]XU'<][\k Um'DUhfc``fl < DŁ'Wcbh]bi Yg']hg']bj Ygh][Uh]cbž

?YmidUfhbYfgi]bia chcfWhWYigUZYhmži]bWiX]b[ih\Yi:`cf]XUi<][\kUm DUhfc`ž555žUbX'h\Y'A chcfWmWY'GUZYhm': ci bXUh]cbžUfY'UWh]jY`m  $k cf_b[$   $hc hUW_Y i bqUZY Xf] b[ VY Uj cfq k ] Y Ybgi fb[ h Uh$ U```f]XYfg`UfY`Uddfcdf]UhY`m``]WYbgYX"`9bZcfW]b[`hfUZZ]W`Uk gž YqdYWJU``mfY[UfX]b['a chcfWmWYf]XYfgž']q'Wfi WJU`"H\YmUfY fYa ]bXYX h\Uha U]bhU]b]b[ 'Uk UfYbYgg cZh\Y]f gi ffci bX]b[ g'UbX UX\Yf]b[ 'hc 'gUZYhm'dfchcWc`g'WUb 'gUj Y ``]j Yg"'H\Y'Wc``UVcfUh]cb

## @cc\_]b[ <sup>5</sup>\YUX

H\Y'fYWYbh'hfU[]WUWW]XYbh'i bXYfqWcfYq'h\Y']a dcfhUbWY'cZ'qi W ]b]h]Uh]j Yg"'HfUZZ]Wj ]c`Uh]cbgžUbX'h\Y]f'WUhY[cf]Ygža Um'g\YX'`][\h cbigca YicZih\Yii bXYfim]b[i]qqi Yg"i5WWcfX]b[ihci: `cf]XU q I b]Zcfa 'HfUZZ]W7]hUh]cb 'FYdcfhž'j]c`Uh]cbg'jUfm'Zfca 'WfUg\! fY`UhYX`]qqiYq`hc`Yei]daYbh`UbX`8I=cZZYbqYq"`9UWX`WcXY dfcj ]XYg`]bg][ \hg`]bhc`h\Y`ZUWhcfg`Wcbhf]Vi h]b[ `hc`fcUX`gUZYhm WX U``Yb [ Ygž']``i ghfUh]b [ 'h\ Uh'h\ Y fc UX hc gUZY hm ]g a i `h]ZUWY hY X"

#### $q_{i} \in Ybh i g]Ughg"$

8Yqd]hY`]hq`WXUfa `Zcf`f]XYfqžXUhU`fYjYU`q`U`XUf\_Yf`d]WhifY" : `cf]XU'fUb\_g']b'h\Y'hcd'h\fYY'ghUhYg'Zcf'a chcfWmWY!fY`UhYX ZUhU`]h]Yg"'<][\`][\h]b[ 'h\Y'U`Ufa ]b[ 'hfYbXž'h\Y': `cf]XU 8YdUfha Ybh'cZ'HfUbgdcfhUh]cb'Ya d\Ug]nYg'h\Y'bYYX'Zcf Yb\UbWYX'a chcfWmWY'gUZYhm'a YUgi fYg"'9Xi WUh]cbU`'dfc[fUa gž ghf]Wh`YbZcfWYa Ybh`cZ`hfUZZ]W`Uk gž`UbX`fU]q]b[ 'di V`]WUk UfYbYgg UfY'U```dUfh'cZ'U'Wca dfY\Ybg]j Y'ghfUhY[m'U]a YX'Uh'fYXi Wjb[ UWWJXYbhg`cb`h\Y`fcUXg"`H\]g`]bWi XYg`]b]h]Uh]j Yg``]\_Y`h\Y`7]h]nYbg A chcfWhWY 7 ci fgY 'G"A "5"F "H"žXYg][bYX hc ]a dUfh Wfi W[U`f]X]b[

# :`cf]XUgAchcfWmWYGUZYhm8]`YaaU

#### 6]\_Y`K YY\_"

XYhU]`q`fY[UfX]b[`h\Y`a chcfWmW]qh q`]XYbh]hm`\Uj Y`bch`mYh`VYYb fY`YUqYX"'Gi W\`]bW]XYbhg`fU]qY'dfYqq]b[ 'ei Yqh]cbg'UVci h a chcfWmWY gUZYhm ]b U ghUhY b chcf]ci g Zcf ]hg U``i fY hc f]XYfg" :`cf]XU'VcUghq'qi bbm'k YUh\Yfž'VYUi h]Zi ``VYUW\Yqž'UbX'qW'b]W \][\kUmgžaU\_]b[`]hU'df]aY'gdch'Zcf'achcfWmWY'Ybh\ig]Ughgž YqdYWJU``m'Xif]b['aU'cf'fU``]Yq``]\_Y'6]\_YhcVYfZYghf 'UbX'8UmhcbU VYhkYYbʻjUf]cigʻghU\_Y\c`XYfgʻU]agʻhcʻdfcXiWYʻUʻgUZYf Ybj]fcbaYbhʻZcfʻU``fcUXʻigYfg"

5gʻ]bjYgh][Uh]cbgʻWcbh]biYʻUbXʻacfYʻ]bZcfaUh]cbʻgifZUWYg fY[UfX]b[`h\Yʻ7fYghj]YkʻachcfWmW]ghgʻhfU[]WZUhYž`]hʻgYfjYgʻUgʻU kU\_Y!idʻWU```ZcfʻVch\ʻgYUgcbYXʻf]XYfgʻUbXʻh\cgYʻWcbg]XYf]b[ hU\_]b[`hcʻh\YʻUgd\U`h"`GUZYhm`aYUgifYgʻ]bʻ:`cf]XUʻUfYʻacfYʻh\Ub ʻighʻfY[i`Uh]cbg/h\YmfY``]ZY`]bYg"`5ZhYfʻU``ž`]bʻUʻghUhYʻZ]``YXʻk]h\ cdYbʻfcUXgʻUbXʻh\Yʻdfca]gYʻcZʻUXjYbhifYž'kY``VY]b[ʻg\ci`X U`kUmgʻfYaU]bʻUʻdf]cf]hm"

8 Y hU]`g	
Cfh	GhUhY FcUX,)ž7fYghj]Ykž:`cf]XUžIG5
EiY``Yb	• k k k "Zcl %\$hj "Wca
	• gYfj]WYg"Z`∖gaj"[cj
	• k k k "ZXch"[cj

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