

BYi b_]fWXYf'7]bYhck Yf. K]YXYfYfÒZZbi b['c\bY '6YhfY]VYf'H]a c G]a cb

H]a c'G]a cb'[]Vh'U`g'6YhfY]VYf'XYg'BYi b_]fW\Yf'7]bYhck Yf Ui Z''9]b'6`]W_'Ui Z'gY]bY'6Yk Y[[fØbXY'i bX'X]Y'Ni _i bZh'XYg ?]bcg"

8 Ugʻ7]bYhck Yf!?]bcʻ]a ʻK UggYfhi fa ʻj cbʻBYi b_]fWkYbʻghY\hʻj cf Y]bYfʻVYXYi hYbXYbʻJ YfÀbXYfi b["'8Yfʻ6YhfY]VYfʻH]a cʻG]a cbžʻXYf Y]bYʻh]YZYʻdYfgÒbʻ]WkYʻJ YfV]bXi b['ni ʻX]YgYa '?]bcʻ\Uhžʻ[]Vh VY_UbbhžʻXUggʻYfʻgY]bYʻDUWkhʻb]Wkhʻj YfʻÀb[Yfbʻk]fX"'8]Yg a Uf_]YfhʻXUgʻYbX[Øʻh][Yʻ9bXYʻgY]bYgʻHfUi a gžʻY]bʻY][YbYgʻ?]bc ni ʻZØ\fYbžk UgʻZØfʻ]\bʻVYgcbXYfgʻgWka Yfn\UZhʻ]gh"

8 Ug??]bc'k Uf'ghYhg'Y]bY'< YfnYbgUb[Y'Y[Yb\Y]h'ZØf'a]W\'k]Y Ui W\'a Y]bYb'J UhYf ž'gc'H]a c'G]a cb"'8]YgY'Ya ch]cbU'Yb'K cfhY gd]Y[Y'b'X]Y'@Y]XYbgW\UZh'k]XYfž'X]Y'Yf'ZØf'XYb'Cfh'\Y[hYž'XYf'ZØf j]Y'Y'b]W\h'bi f'Y]b'Y]bZUW\Yf'Cfh'ZØf':]`a Y'k Ufž'gcbXYfb'Y]b'FUi a ZØf'; Ya Y]bgW\UZh'i bX'?i `hi f"

<]bhYf[fØbXY XYf 9bhgWXY]Xi b[</pre>

H]a c G]a cb Yf_`ÀfhYžXUgg'X]Y 9b hgWXY]Xi b [ž'XUg'?]bc
Ui Zni [YVYbž'Xi fWX 'j YfgWX]YXYbY :: U_hcfYb 'VYY]bZi ggh'k i fXY"'8]Y
k]fhgWX UZh`]WXY @U[Y ']gh'Ub [Ygd Ub b hž'i bX'X]Y '6YX]b [i b [Ybž'i b hYf
XYbYb 'Yf XUg'?]bc 'VYhf]YVYb '\ Uhž'k i fXYb 'ni bY\a YbX
\YfUi gZcfXYfbX"' =b 'XYb 'j Yf[Ub [YbYb '**]\ fYb 'k Uf 'Yg'Y]bY 'ghÀbX][Y
<YfUi gZcfXYfi b [ž'X]Y ::]bUbn]Yfi b ['Ui ZfYWX hni Yf\U`hYb 'i bX
[`Y]WX nY]h]['X]Y E i U`]hÀh'XYg'5b [YVc hg'ni 'g]WXYfb"

 $: \emptyset f ``G] a \ cb\check{z} ``XYf ``] a \ ``7] bYhck Yf ``j]Y ``NY] h ``i \ bX ``9bYf[]Y ``] bj Ygh] Yfh `` \ Uh\check{z} \ .$

]gh:X]YgYf:GWXf]hh:a Y\f:U`g'bi f:Y]b:[YgWXÀZh`]WXYf:FØW_ni [.: 9g ZØ\`h:g]WX:Ubž:U`g'k ØfXY:]WX:Y]bYb:HY]`'j cb:a]f:ni fØW_`UggYbž ZØ[hY:Yf'\]bni "'8]YgY:Ya ch]cbU`Y:@Ugh:nY][hž:k]Y:ghUf_:X]Y JYfV]bXi b[:nk]gWXYb:XYa '6YhfY]VYf'i bX:gY]bYa '?]bc:]gh":G]a cb gdf]WXh:Ui WX:j cb:Y]bYf:NY]hž:]b:XYf:XUg'?]bc:Y]b:nYbhfU`Yf 6YghUbXhY]`:XYg:@YVYbg:XYf:A YbgWXYb:\]Yf:k Ufž:U`g':]`a Y:]b; Ya Y]bgWXUZh:Yf:YVh:k i fXYb"

8 Ug 7]bYhck Yf!?]bc k]fX XYbbc W b]W h ZØf]a a Yf [YgW cggYb V Y]VYb 9g []Vh D AbY Z X Ug ?]bc bc W]b X]YgYa J L f i bhYf bY i Yf @Y]hi b[k]YXYfni Yf OZZbYb 8]Y bY i Yb 6YhfY]VYf _ ObbhYb Zf]gW Yb K]b X]b X Yb 6Yhf]YV Vf]b[Yb Z X c W X]Y 5 Vk YgYb Y]h j cb H]a c G]a cb k]fX nk Y]ZY cg Gdi fYb \]bhYf UggYb 8]Y : fU[Y Z X]Y g]W j]Y Y ghY Y b Z]ghZ c V X]Y bY i Y @Y]hi b[XYb ; Y]gh i b X X]Y 5 ha cgd AfY X Yg 7]b Yhck Yf V Yk U Yf V b Z Ubb Z X]Y G]a cb ØV Yf J Y Y]bk Y[_i h]j]Yfh Uh"

8]Y'K Y]WXYb'ZØf'Y]bY'K]YXYfYfÒZZbi b['g]bX'VYfY]hg'[YghY``hži bXX]Y'JcfZfYi XY'Ui Z'X]Y'FØW__Y\f'XYg'?]bcg']gh'VY]'XYb'6Øf[Yfbjcb'BYi b_]fWXYb'gdØfVUf"'8]YgY'JYfÀbXYfi b[Yb'_ÒbbhYb'Ui WXY]bY'7\UbW'XUfghY``Ybž']bbcj Uh]j Y'=XYYb'i bX'?cbnYdhYi a ni gYhnYbž'i a 'XUg'?]bc'k]YXYf'ni 'Y]bYa '_i `hi fY``Yb A]hhY`di b_h'ni 'a UWXYb"

± BYi b_]fWXYb'[]Vh'Yg'j]Y`Yž'X]Y'XYb'7]bYhck Yf'Ui g
j YfgWX]YXYbYb'; fØbXYb'gWXÀhnYb' 'gY]'Yg'ZØf'X]Y':]`a Yž'X]Y'Xcfh
[YnY][h'k YfXYbž'cXYf'Y]bZUWX'U`g'Y]bYb'Cfhž'Ub'XYa 'a Ub'g]WX'a]h
: fYi bXYb'hfYZZYb'_Ubb"'8 Ug'9bXY'j cb'G]a cbg'5a hgnY]h']gh'XU\Yf
b]WXh'bi f'Y]b'J Yf`i gh'ZØf']\b'dYfgÒb`]WXž'gcbXYfb'Ui WX'ZØf'X]Y
; Ya Y]bgWXUZhž'X]Y'ØVYf'X]Y'≯J\fY'Y]bY'J]Y`nU\`j cb'9f]bbYfi b[Yb
Xcfh'[YgWXUZZYb'\Uh"

8]Y'_ca a YbXYb'A cbUhY'k YfXYb'YbhgWXY]XYbX'gY]bži a 'ni gY\Ybž'k]Y'g]WX'XUg'7]bYhck Yf!?]bc'i bhYf'bYi Yf': Ø\fi b[Ybhk]W_Y`b'k]fX'i bX'cV'Yg'[Y`]b[Yb'_Ubbž'XYb'7\Ufa Y'i bX'X]Y HfUX]h]cbYbž'X]Y'G]a cb'YhUV`]Yfh'\Uhž'Zcfhni ZØ\fYb"'8]Y'GhUXh'i bX]\fY'?]bcUb\Àb[Yf'\cZZYb'Ui Z'Y]b'dcg]h]j Yg'5i ZY]bUbXYfhfYZZYb a]h'XYa 'bYi Yb'6YhfY]VYf'i bX'XUfUi Zž'XUgg'XUg'7]bYhck Yf

 $\label{lem:condition} $$k Y]hYf\]b'Y]bY'k]WXh][Y'Fc''Y']a '_i `hi fY``Yb'@YVYb'BYi b_]fWXYbg gd]Y`Yb'k]fX"$

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z X]Y!bUWXf]WX hYb bYh