

6Ui ghY``Y`]b`NYddYbZY`X. =a V]gg!'i bX A Yhn[YfY]'_Àa dZYb'i a '?i bXYb

6Ui ghY``YbÀf[Yf']b'NYddYbZY`X.'8Yf'=a V]ggVYg]hnYf'≯bg GWXfY]VYf'_Àa dZh'i a '?i bXgWXUZh'i bX'_f]h]g]Yfh'X]Y a Ub[Y`\UZhY'?ca a i b]_Uh]cb'XYf'JYfk U`hi b["

NYddYbZY`X"'8Yf'6Ui 'XYf'<Y``YfVfØW_Y`\Uh'Y]bgW\bY]XYbXY
: c`[Yb'ZØf'`c_U`Y'; Yk YfVYhfY]VYbXYž'X]Y'j cb'XYb

J Yf_Y\fgY]bgW\fÀb_i b[Yb'VYhfcZZYb'g]bX"'8Yf'=a V]gg'j cb'*ybg

GW\fY]VYf'\Uh'VYgcbXYfg'i bhYf'XYf'U_hi Y``Yb'G]hi Uh]cb'ni '`Y]XYb"

5i Z[fi bX'XYf'6Ui ghY``Y'_ca a Yb'Y\Ya U`][Y'GhUa a _i bXYb'b]W\h
a Y\f'j cfVY]ž'k Ug'ni 'Y]bYa 'I a gUhnfØW_[Ub['j cb'ZUgh'Y]bYa

8f]hhY`'[YZØ\fh'\Uh'' 8]Y'?ca a i b]_Uh]cb'a]h'XYf'; Ya Y]bXY']gh
UhUghfcd\U`"'A Ub'k]fX']a 'I b`UfYb'[Y`UggYb ž'Ài »Yfh'GW\fY]VYf
gY]bYb'I ba i h'ØVYf'X]Y' \DZcfa Uh]cbgdc`]h]_"

< c\Y'l a gUhnj Yf`i ghY']a '@c_U`

8 i fWX 'X]Y 'GdYffi b[Yb'\Uh'g]WX 'XYf'8 i fWX[Ub[gj Yf_Y\f']b
F]WX hi b['6 i fVUWX 'j Yf'U[Yfhž'k Ug'Yg'XYb'? i bXYb'YfgWX k Yfhž'XYb
a V]gg'ni 'YffY]WXYb"8]Y 'nU\`fY]WXYb'I a `Y]hi b[Yb'ØVYf'K]`XYb
i bX';]`gVUWX 'a UWXYb'Yg'_ca d`]n]Yfhž'X]Y'A]hhU[gnY]h'YZZ]n]Ybh'ni
bi hnYb" =b'XYf'A]hhU[gnY]h'\UVY']WX 'bcfa U'Yfk Y]gY'fY[Yb'Ni `Ui Zž
XcWX'X]Y'6Ui ghY``Y'`Àggh'XUg'b]WXh'ni ž'Yf_`Àfh'GWXfY]VYf"

5 hYfbUh]j Y GWX] XYf Y]b[Yf]WX hYh

 $\label{thm:condition} I a \ "] \ fY \ "G] \ W \ hV \ Uf_Y] h'ni \ "Yf \ U`hY b \ "GW fY] VYf'i \ bX \ "A \ Yhn[\ Yf \ GhY \ ZUb \ "GW c```] b \ "9] [\ YbfY[\]Y \ "a \ Y \ fYfY \ "GW]`XYf' Ui \ Z[\ YghY ``hz'X]Y \ "X]Y \ 9ffY] W \ VUf_Y] h'] \ fYf' 6Y hf] YVY \ "VYhc bYb" \ "8] YgY \ A \ U» bU \ a \ Y 'nY] [\ hz \ k \]Y \ "gY \ f'X] Y \ "c_U`Yb'I \ bhYfbY \ a \ Yf'VYa \ \emptyset \ h'g] bXz'hfc hn'XYf$

< YfUi gZcfXYfi b[Yb k Y]hYf\]b ?i bXYb Ubni n]Y\Yb" K]f a i gghYb
gY`Vgh'U_h]j 'k YfXYbž'k Y]`'k]f gcbgh'bcW k Y]hYf Y]b_b]W_Yb
k ØfXYb ž'_`U[h'GW\fY]VYf"</pre>

?caaib]_Uh]cb'a]h'XYf'JYfkU`hib['V`Y]Vh Uig

8]Y?f]h]_'Ub'XYf'JYfk U'hi b['b]a a h'k Y]hYf': cfa Yb'Ub"8]Y
I bni Zf]YXYb\Y]h'ØVYf'X]Y'a Ub[Y`bXY'\DZcfa Uh]cbgVYfY]hghY``i b[gY]hYbg'XYf'; Ya Y]bXY'k]fX'`Ui h'GWXfY]VYf'i bX'GWXc```]a a Yf
[fÒ» Yf"'\DZcfa Uh]cbYb'ØVYf'bYi Y'D`Ubi b[Yb'cXYf'\BXYfi b[Yb k]Y'X]Y'9fbYi Yfi b['XYf'K UggYf`Y]hi b[Yb\ZX]Y'YVYbZU``g
UbghY\Yb\Z'_ca a Yb'b]WXh'fYWXhnY]h][\Z'k Ug'X]Y'D`Ubi b['i bX'XYb6Yhf]YV'XYf'; YgWX\ZhY'Yf\YV`]WX'VYY]bZi ggh"\\DXX\AhhY'a Y]bY6Yhf]YVgZYf]Yb'VYggYf'd`UbYb'_\ObbYb\Z'k Ybb']WX'[Yk i ggh'\\AhhY\Z k Ug'X]Y'6Ui ghY``Y'bcWX'U``Yg'a]h'g]WX'Vf]b[h \Z'\Af[Yfh'g]WXGWXfY]VYf"

Ni _i bZh`XYg`; Yk YfVYg`i bhYf`8fi W_

 $8]Y `G]hi Uh]cb ``Uh `b]W. h `bi f `Z]b Ubn]Y ``Y `5i gk]f_i b[Yb \check{z}'gcb XYfb VYY]b Zi ggh `Ui W. `X]Y `Gh]a a i b[']b `NYddYb ZY `X " `8]Y `A YbgW. Yb ZØ\ `Yb `g]W. 'j ca : cfhgW. f]hh `XYf `6Ui a U» bU\a Yb `UV[Y\Ab[hi bX Af[Yfb `g]W. `XUfØVYf \check{z}' XUgg `X]Y `_ca a i bU `Y `J Yfk U `hi b[`b]W. h `X]Y bchk Yb X][Y I bh YfghØhni b[`V]Yh Yh " `5i Z X]Y : fU[Y \check{z}' k]Y `a Ub `Y]b Yb @UXYb `ZØ\fYb `_ObbY \check{z}' k Ybb `Yg `Ub `\D\Zcfa Uh]cbYb `ZY\ `Y \check{z}' []Vh GW. fY]VYf `ni `VYXYb_Yb. `K]f `g]b X `; Yk YfVYghYi YfnU\ `Yf `i b X gc ``hYb `b]W. h `gc `][bcf]Yfh `k Yf XYb"$

8 Yf'l ba i h'ØVYf'X]Y'6Ui UfVY]hYb']b'NYddYbZY'X'nY][hž'k]Y'k]W\h][Y]bY'hfUbgdUfYbhY'?ca a i b]_Uh]cb'nk]gW\Yb'6Øf[Yfbž; Yk YfVYhfY]VYbXYb'i bX'XYf'JYfk U'hi b[']gh"'8]Y'U_hi Y``Yb A U» bU\a Yb'a ØggYb'a]h'6YXUW\h'Ui g[YZØ\fh'k YfXYbž'i a 'X]Y 9l]ghYbn[fi bX`U[Y'`c_U`Yf'; YgW\ÀZhY'b]W\h'k Y]hYf'ni '[YZÀ\fXYb"

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["XY