

8]YgY`gdi f'j cb`K]f[Yg`V]g`A cbhUVUi f. Dc`]nY]'gi W\h'NYi[Yb

NYi [YbUi Zfi Z 6]hhY a Y`XYb G]Y <]bk Y]gY ni f 8]YgY`j YfgW\a i hni b[nk]gW\Yb K]f[Ygž A cbhUVUi f i bX A cgW\Y]a 'Ub X]Y Dc`]nY]]bgdY_h]cb A cbhUVUi f"

5a 'GcbbhU[ž'XYa '%, "'5i [i gh'&\$&(ž'[Y[Yb'\$-.&\$'I \fž'k i fXYb X]Y'Òfh`]W\Yb'6Y\ÒfXYb'U`Ufa]Yfh"'A Y\fYfY'J Yf_Y\fghY]`bY\a Yf a Y`XYhYb'Y]bY'Yf\YV`]W\Y'8]YgY`gdi fž'X]Y'g]W\'Xi fW\'X]Y'GhfU» Yb j cb'K]f[Yg'YfghfYW_hY'i bX'V]g'ni f'5i ZZU\fh'Ui Z'X]Y'6&))']b F]W\hi b['FYbbYfcX'VY]'A cgW\\Y]a 'j Yf`Ui ZYbX'k Uf"'8]Y 8]YgY`gdi fž'X]Y'U`g'[YZÀ\f`]W\'Y]b[Yghi Zh'k i fXYž'n]Y\h'g]W\'j cb XYf'8f"'K cXf]W\!GhfU» Y'ØVYf'X]Y'C fhg`U[Y'A cbhUVUi f'V]g'ni VYgU[hYa 'Di b_h"

8]Y 5bk c\bYfi bX 5i hcZU\fYfigØX`]WX j cb A cbhUVUi fig]bX VYgcf[hžiXUiX]Y ØVYfa À»][Y 8]YgY`j YfgWXa i hni b[iUi ZiXYf : U\fVU\biY]bY dchYbh]Y``Y; YZU\fiZØfiXYb GhfU» Ybj Yf_Y\f XUfghY``h" 6YUa hY XYfiDc`]nY]]bgdY_h]cb A cbhUVUi fighY``hYb VY] Y]bYfiYfghYb 6Y[i hUWX hi b[iZYghžiXUggiUb a Y\fYfYb GhY``Yb g][b]Z]_UbhY 8]YgY`UbgUa a `i b[Yb'j cf\UbXYb'k UfYb" 8]Ygi_ObbhYb]WXhibi fini II bZU``[YZU\fYb'ZØ\fYbžigcbXYfb'Ui WXiX]Y II a k Y`h VYY]bhfÀWXh][Ybžik Yg\U`V'Y]bY gcZcfh][Y FYU_h]cb YfZcfXYf`]WX k Uf"

5i Zk YbX][Y FY]b][ib[ga U bU Yb]

 $\label{thm:constraint} $$ I a 'X]Y'; YZU\fYb'ZØf'5i hcZU\fYf'ni 'VYgY]h][Ybž'ki fXY'i a [Y\YbXY]bY'Ui Zk ÀbX][Y'FY]b][i b['XYf'GhfU" Y']b'5i ZhfU['[Y[YVYb"'8Yf9]bgUhn'j cb'gdYn]U']g]YfhYb'FY]b][i b[gZU\fnYi [Yb']gh'bchk YbX][ži a 'X]Y'gW\AX']WXYb'GhcZZY'j cb'XYf': U\fVU\b'ni 'YbhZYfbYb"'8]YgY'$

_Ubbž'k Ybb 'Yf'Ui Z'X]Y 'GhfU» Y '[Y`Ub[hž'X]Y 'F Y]ZYb 'XYf': U\fnYi [Y fi hgW\]['a UW\Ybž'k Ug'XUg'F]g]_c 'j cb'J Yf_Y\fgi bZ\``Yb'Yf\O\h"

 $: \varnothing f'X]Y'VYhfcZZYbYb'5bk c\bYfž'X]Y'a \ \grave{O}[`]WXYfk Y]gY'j cb'XYf \\ : Yfi WXgVY`\grave{A}gh][i b['VYhfcZZYb'g]bXž'_\grave{O}bbhY'X]Y'FY]b][i b['Ui WXY]bY'9f`Y]WXhYfi b['Vf]b[Yb'''9g'V`Y]Vh'ni '\cZZYbž'XUgg'X]Y \\ FY]b][i b[ga U» bU\a Yb'gWXbY``'i bX'YZZ]n]Ybh'Xi fWX[YZ\@\fh k YfXYbž'i a 'X]Y'[Yk c\bhY'G]WXYf\Y]h'Ui Z'XYb'GhfU» Yb k]YXYf\Yfni ghY``Yb''$

6]hhY i a '<]bk Y]gY 'Ui g XYf '6Yj Ò`_Yfi b[

8 Y hU]`g

6Ygi WXYb G]Y i bg Ui Z b!U["XY