

; fc»Y'Dc`]nY]!?cbhfc``Y']b'6Ø\`. 8i hnYbXY'JYfghÒ»Y'UiZ[YXYW_h°

 $\label{eq:decomposition} Dc`]nY]`6\varnothing \ ``Z\varnothing \ fh'? cbhfc``Yb`Xi fW\ž`XYW_h`nU\`fY]W\Y \\ JYf_Y\ fgj YfghÒ» Y`Ui Zi bX`b]a a h`[Ygi W\hYb`HÀhYf`ZYgh"$



6Ø\`ž'8Yi hgW\`UbX'!'5a :: fY]hU[UVYbX'ZØ\fhY'Y]bY'[Ya Y]bgUa Y ?cbhfc``Y'XYg'Dc`]nY]fYj]Yfg'6Ø\``i bX'XYf'JYf_Y\fgX]Ybgh!
5i »YbghY``Y'6Ø\``Y]bY'i a ZUggYbXY'JYf_Y\fg_cbhfc``Y'Xi fW\ž'X]Y nU\`fY]W\Y'JYfghÒ»Y'Ubg'@]W\h'VfUW\hY"'Nk]gW\Yb'%) i bX'&%'I \f k i fXYb'ØVYf'%&\$:: U\fnYi [Y'Ub'nk Y]'?cbhfc``di b_hYb'nk]gW\Yb 6Ø\``i bX'9]gYbhU``gck]Y']b'6Ø\`!CVYfVfi W\'ØVYfdfØZh"'

8]Y'6YUa hYb'YbhXYW_hYb'Y]bY'Hfi b_Yb\Y]hgZU\fh'a]h'%ž, 'Dfca]``Y i bX'Yfa]hhY`hYb'nk Y]: U\fYf'c\bY'[Ø`h][Y': U\fYf`Ui Vb]g": ØbZ k Y]hYfY'5i hcZU\fYf'\UhhYb'i bhYf'XYa '9]bZi gg'j cb'8fc[Yb'cXYf 5`_c\c``XUg'GhYi Yf']b'X]Y'<UbX'[Ybca a Yb"'Ni XYa 'k i fXYb a Y\fYfY'J YfghÒ» Y'k Y[Yb'i bni fY]WXYbXYf'@UXi b[gg]WXYfi b['i bX i bg]WXYfYf': U\fnYi []bgUggYb'ZYgh[YghY``hž'XUfi bhYf'g]YVYb': À``Y

 $\label{eq:constraint} $$ j \ cb'b \ W \ h'cfXbib \ [g \ Ya \ A) \ "[Yg] \ W \ YfhYb'? \]bXYfb'ibX'ZY \ YbXYb \ G] \ W \ Yf \ Y] \ hg[ifhYb''9] b'XfAb[YbXYf' < UZhVYZY \ kifXY'YVYbZU'`g \ j c'`ghfYW_h'9] b'; Ygi W hYf'aigghY'&") $$ 9ifc'nU \ Ybž'ia'Y] bYf \ : fY] \ Y] \ hgghfUZY'ni'Ybh_caa Ybž'VYj cf'Yf'k] YXYf'ZfY][Y`UggYb kifXY''$

8 Y hU]`g	
J cfZU``	? OfdYfj Yf`Yhni b[ž'JYf_Y\fgi bZU``
I fgUWX Y	Hfi b_Yb\Y]hgZU\fhž: U\fYb c\bY
	: U\fYf`Ui Vb]gž': U\fYbg'i bhYf
	VYfUigWXYbXYb^A]hhY^ibX'ibhYf^5`_c\c`ž
	ni `Uggi b[gfYWXh`]WXY'JYfghÒ»Yž
	a Ub[Y`\UZhYf`@UXib[gg]W\Yfib[ž'b]W\h
	cfXbi b[g[Ya À» [Yg]WXYfhYb ?]bXYfb
Cfh	6Ø\`ž8Yi hgW\`UbX
: YghbU\a Yb	%
GWX UXYb ']b '	&) \$\$

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