

## 9fghYf [Ya Y]bgUa Yf =bhY[fUh]cbg! i bX Ei YYf!DfY]g ]b @]W hYbVYf[ j Yf ]Y\Yb

9bhXYW\_Yb^G]Y^X]Y^YfghYb^⊕hY[fUh]cbgdfY]g!ibX^EiYYf!
DfY]g^@JW\hYbVYf[!JYfY]\ib[Yb^Ua^-\"C\_hcVYf^&\$&(\"DfY]ghfÀ[Yfg]bX^9a]`;]`]`cj~jca^@c\_U`^Acf[Yb^k]fX
VYggYf^ibX^Acf[Ub^Kc]bnYW\_jca^?]YnhfYZZ^IbX]bY\\"9fZU\fYb^G]Y^aY\f^ØVYf^]\f^9b[U[YaYbhZØfX]Y
a][fUbh]gWXYibXeiYYfY^7caaib]hm]b^@JW\hYbVYf[~gck]YX]Y^ni\_ØbZh][Y^JYf[UVY^XYf^DfY]gY\"



 $\label{eq:constraint} $$ 'A = 'Ghc`n'bU\a '9a' ''; '']`cj' XYb' + hY[fUh]cbgdfY]g'a h'gY]bYa $$$ 

HYUa 'XYg'VY`]YVhYb'@c\_U`g' A cf[Yb'k]fX'VYggYf 'Ybh[Y[Ybž'XUg]b'XYf'<U[YbghfU» Y'ZØf'XYb'5i ghUi gW\nk]gW\Yb'?i `hi fYb'i bX; `Ui VYbgf]W\hi b[Yb'\_Aa dZh''5i W\'A cf[Ub'K c]bnYW\_ž'X]Y]bgd]f]YfYbXY'@Y]hi b['XYg'?]YnhfYZZg' I bX]bY ž'Yf\]Y`h'XYb'Xf]hhYbEi YYf!DfY]g'@|W\hYbVYf[''i bX'XUg'Ui g'[i hYa'; fi bX'''

## 8Yf'DfY]g'ZØf'9b[U[Ya Ybh'i bX'Gc`]XUf]hÀh

"6Yn]f\_gVØf[Yfa Y]ghYf'A Ufh]b'GWXUYZYf'ff781 Ł'`]Y» \_Y]bY'Nk Y]ZY`Ui Z\_ca a Yb. →W ZfYi Ya ]W ØVYf'X]Y'9bhgWXY]Xi b[Yb'XYfVY]XYb' → fmg° "'GY]bY'6Y[Y]ghYfi b['k]fX'Xi fWX'X]Y
VYY]bXfi W\_YbXY'5fVY]h'XYf'DfY]ghfA[Yf'i bhYfa Ui Yfh"'G]Y
VYk Y]gYb'Y]bXfi W\_gj c``ž'k]Y'k]W\h]['Gc`]XUf]hÀh'i bX'G]W\hVUf\_Y]h
XYf'a][fUbh]gWXYb'i bX'ei YYfYb'7ca a i b]h]Yg']b'@]W\hYbVYf[
g]bX"'→fY'Yb[Yb'?ccdYfUh]cbYb'VY]'JYfUbghU'hi b[Yb'k]Y'XYa
J]Y`ZU`hgZYgh'Ui Z'XYa : fY]Ud`Uhn'nY][YbžXUgg'g]Y'b]W\h'bi f'fYXYbž
gcbXYfb'Ui W\`\UbXY`b°''

"8 UgʻHYUa ʻj cbʻ A cf[Ybʻk]fX VYggYf `\UhʻYgʻg]W\ni fʻ5i Z[UVY
[Ya UW\hžʻ6f@W\_Ybʻnk]gW\Ybʻj YfgW\]YXYbYbʻ?i `hi fYbʻni ʻgW\`U[Yb
i bXʻj YfghY\hʻg]W\ʻb]W\hʻbi fʻUʻgʻHfYZZdi b\_hžʻgcbXYfbʻUi W\ʻUʻgʻY]b
CfhʻZ@fʻ]bhYbg]j Ybʻ5i ghUi gW\ʻ VYgcbXYfgʻnk]gW\YbʻXYfʻ\_`Y]bYb
'@X]gW\Ybʻ7ca a i b]hmʻi bXʻUbXYfYbʻ?i `hi fYb"ʻ9]bʻUVgc`i hYg
<][\`][\h']ghʻXUgʻU``'À\f`]W\YʻGhfU» YbZYghʻ9bXYʻ5i [i ghž'k Y`W\Yg
X]YʻJ]Y`ZU`hʻXYgʻ6Yn]f\_gʻZY]Yfh°ʻ

## J ]Y`ZU`h'i bX'\_fYUh]j Y'5b[ YVchY']a '? ]Yn

"A cf[ Ub 'K c]bnYW\_']gh'X]Y'hfY]VYbXY'?fUZh'\]bhYf'XYa 'Vi bhYb 5b[ YVch']a '?]YnhfYZZ' I bX]bY "'Jcb'hfUbgł ZfYi bX`]W\Yb BYhk cf\_]b[!JYfUbghU'hi b[ Yb'ØVYf'XYb'6Yf']bYf'GhUa a h]gW\'ZØf 9`hYfb'j cb'HfUbgł?]bXYfb'V]g'\]b'ni 'VYXYi hgUa Yb'9j Ybhg'k ]Y XYa 'HfUi Yfa UfgW\'ni a '8 Um'cZ'FYa Ya VfUbWY'&\$&' 'g]Y'gcf[ hXUZØfž'XUgg'X]Y'ei YYfY'7ca a i b]hm']b'@]W\hYbVYf[ 'YVYbX][ 'i bX g]W\hVUf'V'Y]Vh'''

 6Yn]f\_gUa h'@|W\hYbVYf[ 'Y]b[ YfY]W\h'k YfXYb"'9g']gh'Ub'XYf'NY]hž Ui Z'X]Y'A YbgW\Yb'ni 'gW\Ui Ybž'X]Y'i bgYfY'; Ya Y]bgW\UZh VYfY]W\Yfb°''

.

8 Y hU]`q

6Ygi WXYb G]Y i bg Ui Z a Y]b!VYf`]b bYh