

J Yfk]ffi b['i a '∞bUh\Ub'HU\.': 7'6UmYfb]bhYbg]j]Yfh'HfUbgZYfj Yf\UbX`i b[Yb

8]Y'JYfk]ffi b['i a 'xbUh\Ub'HU\g'HfUbgZYf'ni a ': 7'6UmYfb b]a a h'ni "'GYhnh'@Yj Yf_i gYb'XYa 'FY_cfXa Y]ghYf'Y]b I `h]a Uhi a 3

8]Y'U_hi Y``Yb'9bhk]W_`i b[Yb'fi bX'i a 'XYb'HfUbgZYf'j cb'*cbUh\Ub HU\'k YfZYb'Y]b'@]W\h'Ui Z'X]Y'_ca d`Yl Y'8mbUa]_']a ':i » VU``ž]bgVYgcbXYfY'XUfØVYfž'k]Y'JYf`Yhni b[Yb'i bX'HYUa ghfUhY[]Yb'X]Y A Uf_hU_h]j]hÀhYb'VYY]bZi ggYb'_ÒbbYb"

8]Y'5igk]f_ib[Yb'XYf'JYf`Yhnib['jcb <]fc_]'=h

 $8] Y'JYf`Yhnib['jcb'<] fc_]' + z'XYf'g] W'Y] bYb'A] hhY`Z » Vfi W ni [Ync[Yb'\Uhž'_ObbhY'_UhUghfcd\U`Y'?cbgYeiYbnYb'ZØf'XYb': 7 6 UmYfb'\UVYb''@Uih'JYfY] bga] hhY]`ib['k] fX'XYf'* JdUbYf'aY\fYfY KcWXYbž'aO[']WXYfkY] gY'gc[Uf'AcbUhY'UigZU``Yb'''Gc`WXY JYf`Yhnib[Yb'g] bX'b] WXh'bif'gWXaYfn\UZhž'gcbXYfb'UiWX'a] hY] bYa'\c\Yb'F] g]_c'ZØf': c`[YjYf`Yhnib[Yb'jYfVibXYb'''+b'XYfJYf[Ub[Yb\Y]h'\UVYb'A\b`] WXY': A``Yž'k]Y'XYf'jcb'AUbiY``BYiYfž[YnY][hž'k]Y'ghUf_Y]b'jYf`YhnhYf'Gd]Y`Yf'XUg'[YgUahY HYUa[YZØ[Y'VYY]bZ'iggYb'_Ubb''$

>c b U h \ U b 'HU \ g 'F c \ 'Y '] b '@Y j Y f_i g Y b

 $\label{eq:constraints} $$Jcf^X]YgYa^<-]bhYf[fibX^ghY^hg]WX^X]Y^:fU[Y^bUWX^XYf^Ni_ibZh_jcb^*&bUh^Ub^*HU^*Z^XYa^5Vk_Y^fWXYZ^jcb^6UmYf^@Yj_Yf_igYb^*^Hfchn_XYf^*_Y]bYb^*I_bg]WXYf^Y]h^*]b^*XYf^5Vk_Y^f^_ObbhY^Y]b^*K_YWX_gY^*ZØf_HU^*gck_c^*ZØf^]^b^*U^*g^*Ui_W^*ZØf^XYb^*:7^6UmYfb^*jcb^6YXYi_hi_b[gY]b^*^6UmYf^@Yj_Yf_i_gYb^*g]Y^h^HU^*U^*g^*GW^*QggY^*gd]Y^YfZ^XYggYb_$$

 $5V[Ub['Yfbgh\UZhY'5igk]f_ib[Yb'UiZ'X]Y'8YZYbg]jY'XYg'HYUag\UVYb'_ObbhY"$

HfUbgZYf[YfØWkhYibX]\fY?cad`Yl]hÀh

8]Y 'ni `Yhnh'Ui Z[YZUa a hYb'HfUbgZYf[YfØW\hY'i a 'HU\'\UVYb'ZØf
J Yfk]ffi b['[Ygcf[h"'6Yf]W\hYb'ni Zc`[Y'\Uh'XYf': 7'6UmYfb'Y]b
bYi Yg'5b[YVch'ZØf'XYb'5Vk Y\fgd]Y`Yf'i bhYfVfY]hYh'
a Ò[`]W\Yfk Y]gY'VYfY]hg']a '\$\dangle b]"'6UmYf!GdcfhW\YZ'G]a cb'Fc`ZYg
VYhcbhY'YXcW\\dangle XUgg'Yg'_Y]bYb'bYi Yb'GhUbX'[YVY"'HUhg\dangle W\\]W\
_\ObbhY'Yg'gY]b\dangle XUgg'X]Y'K Yf_gY`Z'XUg'ni b\dangle W\dangle fYf]b[Y'5b[YVch
XYf'6UmYfb'[Uf'b]W\dank Y]hYfj YfZc`[h\\Uh"

< YfUi gZcfXYfi b[Yb]b XYf? UXYfd`Ubi b[</pre>

9]b'k Y]hYfYf: U_hcfž:XYf']b'X]Y', VYf`Y[i b[Yb'XYf
J YfUbhk cfh`]WXYb'Y]bZ]Y» hž'g]bX'X]Y'A Y`XYfY[i `Uf]Yb'ZØf'X]Y
7\Ua d]cbg'@YU[i Y"'I a 'XYb'5bZcfXYfi b[Yb'[YfYWXh'ni 'k YfXYbž
]gh'Yg'bchk YbX][ž'VYgh]a a hY'Gd]Y`Yfž'X]Y']b'8Yi hgWX`UbX
Ui g[YV]`XYh'k i fXYbž']b'XUg'HYUa 'Ui Zni bY\a Yb"'8]Yg'VYXYi hYhž
XUgg'@Yj Yf_i gYb'U_h]j'k YfXYb'a i ggž'i a 'g]WXYfni ghY``Ybž'XUgg
X]Y'?UXYfghfi _hi f'XYb'5bZcfXYfi b[Yb'Ybhgdf]WXhž'gc``hY'HU\'XYb
J YfY]b'j Yf`UggYb"

9]b'a Ò[`]W\Yg'l`h]a Uhi a 'ZØf HfUbgZYfj Yf\UbX`i b[Yb

: Un]h. 8]Y I bg]W\Yf\Y]h]a HfUbgZYfa Uf_h

8]Y'[YgUa hY'G]hi Uh]cb'j YfXYi h`]W\h'b]W\h'bi f'X]Y'I bg]W\Yf\Y]hYbž X]Y'JYf`Yhni b[Yb'i bX'HYUa ghfUhY[]Yb'a]h'g]W\'Vf]b[Ybž'gcbXYfb Ui W\'X]Y'<YfUi gZcfXYfi b[Ybž'a]h'XYbYb'JYfY]bY']b'XYf'\Yi h][Yb NY]h'_cbZfcbh]Yfh'g]bX''K À\fYbX'X]Y'HfUbgZYf[YfØW\hY'i a \&bUh\Ub'HU\'k Y]hYf\]b'_i fg]YfYbž'V`Y]Vh'X]Y': fU[Yž'k]Y'XYf': 7 6UmYfb'a]h'X]YgYf'bYi Yb'G]hi Uh]cb'i a [Y\Yb'k]fXž'i a 'gck c\`'X]Y gdcfh`]W\Yb'U`g'Ui W\'X]Y'Z]bUbn]Y``Yb'N]Y`Y'ni 'YffY]W\Yb'

B5;

8 Y hU]`g

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