XY!f]g_]b[`\cjYfg'UfcibX` YV&bca]VX]jYfg] VVh]cb`

H\Y'9I `\Ug`cb[VYYb'UWbj]bWX'gi ddcfhYf'cZ'cdYb'

hc VY`]Yj Y'h\Uh]h]bhfcXi WX'h\YWzbWdhcZXY!f]g_]b[` Zfca '7\]bUYj Yb VYZcfY'h\Y'l G'UXa]b]ghfUh]cb X]X'' i bZUj ci fUV`Y`g]hi Uh]cbžZfca h\Y`91 dYfgdYVh/jj Yž`YX hc`U`

&\$% "K \]`Y`fYW&[b]g]b[`H\UhW&cdYfUh]cb`k Ug`bYYXYX]b`WfHU]b`UfYUg! YgdYVJU``mW]a UhY! V&a dYh]h]cb`Vi h` U`gc`gnghYa]Wf]j`U`fmk YfY`]bHfcXi WX`Ug_YmhfU]hg`cZ'9I !

hc ``]VYfU']gY'hfUXY'UbX']bj Ygha Ybh''=hk Ug'cbY'cZh\Y'

h\Ub`cf][]bU`mYI dYVMYX": cfY][b`X]fYVMi]bj Ygha Ybh]b`

]bˈgYfj]WgžfYa U]bYX WcgYX UbX ghUhY! ck bYX YbhYfdf]gYg'k YfY bch'df]j Uh]gYX cf`gi Vg]X]YgY`]a]bUhYX''' =b YggYbWZ7\]bU'bYj Yf VYWa Y'U'a Uf_YhYWzbca mUbX Wzbh]bi YX hc`i gY]bXi ghf]U`dc`]Whhc`a cj Y`i d'h\Y`'UXXYfž

L] Wa Yhc dck Yf]b &\$% "Cb h\YWdbhfUfnž7\]bYgY Wa dUb]YgWei]fYXYbci [\g]nYhc Wa dYhYWfcUXž \Y`dYXVm`Uf[Y'Wei]g]h]cbgcj YfgYUgVi hk]h\ci hnYh

?Ymjggi Yg

D]bdc]bh]b[`h\YYI UM/i`Ui bW XUhY`cZ XY!f]g_]b[`Zfca 7\]bU`Ug'UW/zbW/dhi U`ZfUa Yk cf_]g'hf]W_mUg]hYj c`j YX [fUXi U``nziZ Y``YX`Vma i `h]d`Y`ZUM/zcfgcj Yf`h]a Y''A Ubm Uf[i Y`h\Uh7\]bU'ghUfhYX`]hgdUh\ hc XY!f]g_]b[`VYZcfY'h\Y`

cZgY`ZfY`]UbWY`Vi hUgc'h\UhcZXiU`VVjfW/`Uh]cb'UfY` gcaYh]aYg'Vdbg]XYfYX`Yid\Ya]gag'Zcf`XY!f]g_]b[""

: fca 'h\Y'K YghYfb'g]XYžh\Y'Hfi a d!`YX'hfUXY'k Uf'U[U]bgh 7\]bU'Vfci [\hhc`][\hh\Y'WbCWdhcZXY!Wfi d`]b[ž YgdYW]U`mcb'h\Y'hYWbc`c[]WJ'ZfcbhžVi h]hdfcj YX'hc VY'i bUW]YjUV'YžUbX'WfhU]b`mi bXYg]fUV'YžVYWi gY cZh\Y'a Ugg]j Y]bhYfXYdYbXYbWgcZh\Y'5a Yf]Wb UbX'7\]bYgY'YWbca]Yg''H\Y'gc!WJ'YX'D\UgY'=XYU g][bYX'f][\hVYZcfY'h\Y'7CJ =8!% dUbXYa]Wik Ug' a YUbhhc VY'h\Y' fghd\UgY'cZbcfa U]gUh]cb'cZl G!

h\Y1 G"H\Y7CJ =8!% dUbXYa]WUa d`] YX'gi dd`m

]b % % 20 w bhjbi YX hc ``]a]hh YI GXYdYbXYbWgcb

dUfh]W`Uf`cZYI dcfhWebhfc`g`cb`\][\!YbX`gYa]WebXi Wecf` Yea dcbYbhgëU'h][\hYb]b[`cZ]bVci bX`]bj Ygha Ybh`



=b `ch\ Yf `k cfXgž'Yj Yb `Uh'h\ Y`U[[fY[UhY``Yj Y`` `UbX`

 $\label{eq:constraint} UhfUXY!\,cZ\!ZVYhk\,YYb\,Wcghg\,UbX~gYWf\,f]hm^{\prime\prime} < ck~gcVJ\!Yh]Yg^{\prime\prime}$

a U_]b[']h'\UfX hc a cj Y ZUghcb h\Y XY! f]g_]b['ghfUhY[n'' H\]g]g'Yj Yb a cfY Véa d`]WUhYX]Z'k Y Vébg]XYf h\Uh

dfYfc[Uh]j Y"9| a Ya VYf ghUhYg`\Uj Y X]ZYfYbhfY`Uh]cbg Zfca '7\]bUžk]h\gca Y`\Uj]b[VYbY HYX'a cfY'h\Ub ch\Yfg''H\Y'WgY'cZ<i b[Ufmg'ci Hf][\hfYZ gU'cZh\Y' 9| XY!f]g_]b[ghfUhY[mWbHfUghg'k]h\@h\i Ub]U`\Uj]b[gi ZYfYX'X]fYWfYHU]Uh]cb Zfca '7\]bU'UbX`\Uj]b['bc fY'm

g`]ddYfmfcUX`cZfYg\cf]b[UbX`a Ugg]j Y`gi Vg]X]gUh]cb`cZ

ch\Yf`k cfXgžk \]`Y`]a dcfhUbhžXYZYbg]j Y`a YUgi fYgWbbch` VY`h\Y`cb`mcbYg`cb`k \]W\h\Y`9I Wb`fY`n'iCZZYbg]j Y`

cVj]ci gcbY`]gh\Y`dcgg]V]`]hrihc`Vf]b[]b[`VUW_Vi g]bYgg`

bY]h\YfYZ V]ybhifPl WoghgUfYhcc`\][\`]b`a UbmWgYgE

Ujc]X'giWiUgh\YWebhfc`cZWf]h]WU fUk a UhYf]U'gt"

cZYIWgg]jYfY`]UbW`cbUg]b[`YWtibhfm'DUbXYa]W fY`UhYX`dfchYMjjY`[YUfUbX`d\UfaUWih]W`gUfY`Ubch\Yf` [ccX`YIUad`Y"`H\Y`\UfXYghf]g_`hc`bX`dfchYMjcbZfca

U'dchYbh]U Web]Whi]b h\Y HU]k Ub GhfU]h'Vi hžYj Yb i]b i