Gk]b[`]bhc`Gi a a Yf. '>c]b`h\Y`: cfh`A mYfg 6YUW\'; c`Z'Hci fbUa Ybh°

>c]b`h\Y`: cfh`A mYfg`6YUW\`7\Ua VYf`Zcf`h\Y`/ ei ch/Gk]b[ci h`cZ`Gi a a Yf/ ei ch/`[c`Z`hci fbUa Ybh`Uh`Hcd[c`Z`cb 5i [i gh`, ž`&\$&) "`CdYb`hc`U```



&\$&%'Hcd[c`Z'K Umž: cfh'A mYfgž: @''' - * * ž'I G5'!'; Yh'fYUXm hc'gk]b['mci f'Wi Vg'UbX'Yb'cm'U'ZUbhUgh]WYj Yb]b['cZ'Z b'Uh'h\Y i dWca]b['Gk]b['ci h'cZ'Gi a a Yf'[c`Z'hci fbUa Ybh'\cghYX'Vm h\Y': cfh'A mYfg'6YUW\'7\Ua VYf'cZ'7ca a YfWY"'HU_]b['d`UWY'cb 5i [igh', ž'&\$&) ž'Uh'Hcd[c`Zž'cWUhYX'Uh'&\$&%'Hcd[c`Z'K Umž': cfh A mYfgž'h\]g'Yj Ybh'dfca]gYg'hc'VY'U'XY`][\hZi ``a]I 'cZ'Zf]YbX`m Wca dYh]h]cb'UbX'Wca a i b]hm'gd]f]h'''K \Yh\Yf'mci fY'U'gYUgcbYX [c`ZYf'cf'1 gh'k Ubh'hc'Yb'cm'U'[fYUh'Yj Yb]b['ci hž'h\YfY g gca Yh\]b['\YfY'Zcf'Yj YfmcbY'

H\Y'hcifbUaYbh'kY`WcaYg`]bX]j]XiU``d`UmYfg`cf`hYUag`cZ`id`hc g]lž`aU_]b[`]h'Ub`]XYU``cWWUg]cb`Zcf`Zf]YbXgž`ZUa]`]Ygž`cf Wckcf_Yfg`hc`WcaY`hc[Yh\Yf`Zcf`U`[ccX`WUigY"`DUfh]W]dUbhg`WUb

Hcd; c`ZYjYbhg'ZYUhifY'jUf]cig'ZibXfU]g]b['UWh]j]h]Yg'giW\'Ug fUZZYg'UbX'YjYb'df]nYg'VUgYX'cb'dYfZcfaUbWYž'UXX]b['Ub

UbX'gi ddcfh``cWU``]b]h]Uh]j Yg": i bXfU]gYfg``]_Y'h\]g`cbY'\Uj Y dfcj Yb'hc'VY'ei]hY'YZZYWh]j Yž'UbX'UWWcfX]b['hc'; c`Z";]j Ygž'[c`Z Yj Ybhg'Wca V]bY'YbhYfhU]ba Ybh'k]h\'h\Y'dYfZYWh'd`UhZcfa 'Zcf fU]g]b['Z bXg"'Bch'cb`m'WUb'mci 'Yb^cm'U'[fYUh'h]a Yž'Vi h'mci fY U`gc'Wcbhf]Vi h]b['hc'k cfh\k \]`Y'WUi gYg"

H\Y' Gk]b['ci h'cZ'Gi a a Yf 'hci fbUa Ybh']gb h''i gh'UVci h'd`Um]b[

[c^Z]hgUib]eiYcddcfhib]hmhcYb[U[Yk]h\h\YWcaaib]hm

A cfY'H\Ub'; c`Z

5```dUfh]W]dUbhg`UbX`gdYWhUhcfg`k]```\UjY`UVWWgg`hc`Hcd[c`Zg Gac_Y\cigY`66E`6iZZYhž'8YggYfh`Hf]cž`UbX`Xf]b_g`[U`cfYž]bWiX]b[`kUhYfž`]VWX`hYUž'gcXUgž'UbX`WcZZYY"`AUf_`mcif WU`YbXUfg fY[]ghfUh]cb`WcgYg`cb`5i[igh`%ž'gc`aU_Y`gifY`hc gbU[`mcif`gdch`VYZcfY`]hg`hcc``UhY``:cf`eiYgh]cbgž`mci`WUb`fYUWX cih`hc`8Um`U`Uh`YjYbhg4ZaVWXUaVYf"Wca`cf`WU`` &'-!()(!+)\$\$"

- GdYWhUhcf.~~)\$
- GdYWhUhcf^{*}k]h\^{*}8f]b_^{*}DUW<u>U</u>[Y.^{**}%\$\$
- =bX]j]XiU``D`UmYf.``%)\$
- =bX]j]XiU`D`UmYf`k]h\`8f]b_`DUW_U[Y.``&\$\$
- HYUa 'cZ'G]I.' %ž&\$\$'f]bWi XYg'dfYa]i a 'Xf]b_'dUW_U[Y UbX'mci f'Wca dUbm`c[c'cb'h\Y'Yj Ybh'dU[YŁ

Gcž\ck Xc`mci [Yh`]b`cb`h\Y`UWh]cb3`FY[]ghfUh]cb`]g ghfU][\hZcfk UfX`UbX`cdYb`hc`h\Y`di V`]W bc`7\Ua VYf a Ya VYfg\]d`fYei]fYX°`<YfY g`h\Y`df]W]b[`VfYU_Xck b.

9jYbh[·]8YhU][°]g[·]UbX[·]FY[]ghfUh]cb

 $\label{eq:constraint} \begin{array}{l} \label{eq:constraint} YIdYWhUZb!Z`YZ`YJYD]b[``k]h\`UWh]j]h]Yg``]_Y`fUZZYgž`U`VYUh`h\Ydfc`WcbhYghž`UbX`h\Y`h\f]``]b[``\c`Y!]b!cbY`W\U``Yb[Yž`k\YfY`cbY``i W_m`d`UmYf`Wci`X`k]b`U`k \cdd]b[```%$ž$$$"`<ck_g`h\Uh`Zcf`U``]hh`Y`]bWYbh]jY`hc`gk]b[``k]h\`ghm`Y3 \\ \end{array}$

YI Wjhjb[`hk]ghihcih\Y`WcadYhjhjcb"`DUfhjWjdUbhg`WUb`WcadYhY`]b hYUagžaU_jb[`jh'ZYY``Ygg``]_Y`U`hcifbUaYbh`UbX`acfY``]_Y`U Wcaaib]hm`[Uh\Yfjb["`H\]g`UddfcUW\`bch`cb`m`VYbYZjhg`W\UfjhjYg Vih`U`gc`Wi`hjjUhYg`gcWjU``VcbXg_k\c`XcYgbh``cjY`Ub`YjYb]b[Zj``YX`k]h\``Ui[\hYf`UbX``][\h!\YUfhYX`WcadYh]h]cb3

: cf'h\cgY``cc_]b[`hc`^c]b`]bž'h\YfY`UfY`U`\cgh`cZ`UWh]j]h]Yg'd`UbbYX Zcf'h\Y`Yj Ybh'h\Uh'WUhYf'hc'j Uf]ci g'dfYZYfYbWYg"`Mci ```Z]bX`Ub]bWi g]j Y`Ybj]fcba Ybh'h\Uh']bj]hYg'ZUa]`]Ygž'Wca a i b]hm a Ya VYfgž'UbX`]bX]j]Xi U`g'Zfca `U```k U`_g`cZ``]ZY`hc'dUfh]W]dUhY" K]h\`[c`Z'Ug'h\Y`WYbhfU``h\Ya Yž']hg'Vci bX`hc'VY`U`gcW]U``Yj Yb]b[h\Uh'k Ufa g`\YUfhg UbX`VcX]Yg k]h\`[ccX`ZccX`UbX`[fYUh Wca dUbm"

Gcž [Uh\Yf mci f Zf]YbXgž Xi gh cZ h\cgY [c`Z Wi Vgž UbX a Uf_ mci f WU`YbXUfg H\Y Gk]b[ci h cZ Gi a a Yf hci fbUa Ybh cb 5i [i gh, Uh Hcd[c`Z]g Ub Yj Ybh mci k cb h k Ubh hc a]gg FYUXmž gYhž gk]b[°

: cf'a cfY']bZcfa Uh]cb'UVci h'h\Y'Yj Ybhž'j]g]h'h\Y': cfh'A mYfg 6YUW\'HU`_'cf'W\YW_'h\Y': cfh'A mYfg'6YUW\'7\Ua VYf k YVg]hY"

8 Y hU]`g	
Cfh	&\$&%`Hcd[c`ZKUmž:cfhAmYfgž:@''-**ž
	I G5
EiY``Yb	• k k k "Zcfha mYfgVYUWAhU`_"Wca
	 k k k "Zcfha mYfgVYUWX "cf[
	• Yj Ybh"[]j Yg

6Ygi WXYb'G]Y'i bg'Ui Z.'a Y]b!k]Yb"bYh