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H\Y`YWi fY`]bWi XYg. =bfcXi Wijcb'ic'd\mg]WU`dfcWggYg`]bj c`j YX`]b`Xf]``]b['c]`'UbX`[Ug'k Y``g"`F cHJfm Xf]``]b['f][g'Zcf'Vch```UbX`UbX`cZg\cfY'cdYfUH]cb"`8f]``]b['Yei]da Ybh]bWi X]b['f]['dck Yf]b['UbX HfUbga]gg]cbž`\c]gh]b[žfcHJfmgmghYa gž'6C D`Yei]da YbhUbX`\cc_i dž'Xf]```d]dYg`UbX`Wc``Ufg"`8f]``]b['Zi]X WjfW``Uh]b['gmghYa g`]bWi X]b['di a dgža i X`HUb_gža i X`a]I hi fYg`UbX`a i X`WYUbYfg"`9`Ya Ybhg`cZfcW_ a YVXUb]Wg`UbX`]hg`Udd`]WUh]cb`]b`Xf]``]b["`GY`YWi]cb`cZXf]```V]hg`UbX`dYbYhfUH]cb`fUhY`cdh]a]gUh]cb"`F][g]n]b['UbX`gY`YWi]cb"`GdYW]U`a Uf]bY`Yei]da YbhZcfcZg\cfY`Xf]``]b["

H\Y``UVcfUhcfmik.cf_`]bj.c`j.Yg. 'Zcfa i `Uh]cb`cZU`VUg]WXf]``]b['Zi]X`UbX`WYa YbhZi ffmUbX`XYhYfa]bY d\mg]WU``UbX`WXYa]WU``dfcdYfh]Yg"`D\mg]WU``UbX`WXYa]WU``dfcdYfh]Yg`]bWi XY`XYbg]mž'j]gWcg]mž'Z]`hfUh]cbž U`_U`]b]mž'UW]X]mž'gc`]X`WcbhYbhgž'UbX`dfYgYbWY`cZc]`žk UhYfž'UbX`[UgYg`]b`Xf]``]b['Zi]Xg"

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Gi Va]gg]cb`bchYg.`Cb`]bY`A ccX`Y`Gi Va]gg]cb

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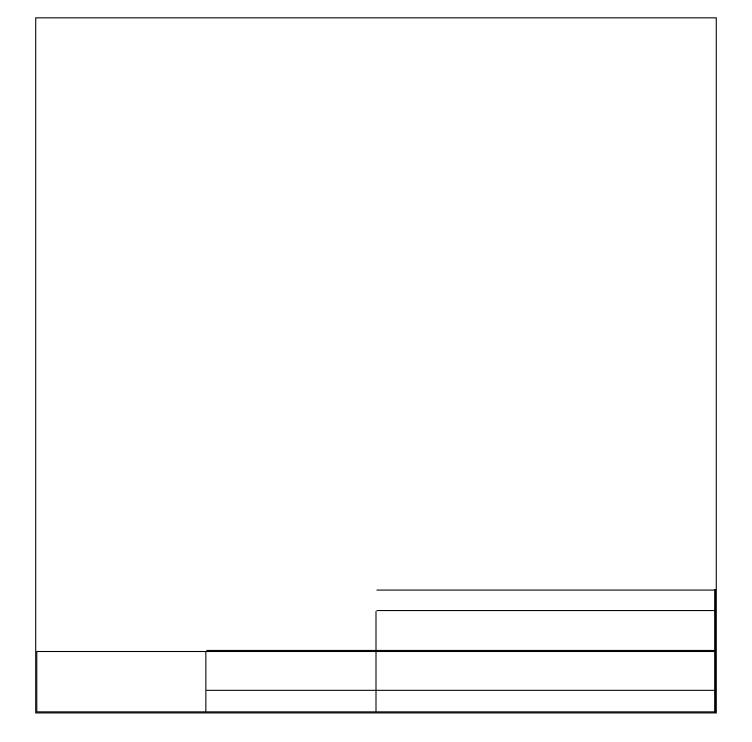
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H\Y`YWhifY`bchYg#g`]XYg`aUmVY`j]YkYX`UbX`Xckb`cUXYX`Zfca`h\Y`LBGK!AccX`Y. \hnd.##accX`Y"hY`h'ibgk"YXi"Ui#

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- 5dd`]YX'8f]``]b['9b[]bYYf]b['5H'6cif[cmbY'>fžA9'7\YbYjYfhž??'A]``\Y]a'UbX':G'Mcib['>f" GD9'HYIH/cc_'GYf]YgžJc`"'&ž&bX'9X]h]cb'f%--%2
- C]`KY``8f]``]b[`9b[]bYYf]b[žDf]bW]d`Yg`UbX`DfUW]WY`<"FUV]U"; fU\Ua`UbX`HfchaUb`@X`f1%,)Ł

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5 hih Y YbX cZYUW. Wci fgYžU```ghi XYbhg`k]```\Uj Y h\Y cddcfhi b]hmhc Wca d`YhY U'Wci fgY Yj U`i Uh]cb Zcfa " H\YgY`Ubcbma ci g`gi fj Ymg`\Y`d`i g`i bXYfghUbX`mci f`j]Yk g`cZh\Y`Wci fgYžmci f``YWh fYfg`UbX`h\Y`Wci fgY a UhYf]U`g"`K Y`UfY`Wcbh]bi ci g`mi]a dfcj]b[`ci f`Wci fgYg`VUgYX`cb`ghi XYbhZYYXVUW_ž`UbX`mci f`dYfgdYWh]j Y]g`j U`i UV`Y"

: YYXVUW_`]g`[]jYb`j]U`\hhdg.##ghiXYbh'i bgk "YXi "Ui #a m91 dYf]YbWY`UbX`mci`k]``VY`bch]Z]YX`k \Yb`h\]g`]g UjU]`UV`Y`Zcf`mci`hc`Wca d`YhY"

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'`Gi Va]gg]cb`cZ`Ub`5gg][ba Ybh

Uf_g`Zcf`Ub`Ugg][ba YbhUfY`cb`mdcgg]V`Y`k \Yb`Ub`Ugg][ba Ybh`]g`fYWY]j YX`Vmh\Y`Xi Y`XUhY"`

oXYfgHUbX'h\Uh'Uh'HaYg'mci `aUmbch'VY'UV`Y'hc'gi Va]h'Ub'Ugg][baYbh'cb'h]aYž'UbX'h\Y'GV\\cc``k]`` LacXUhY'Ubm'ZU]f'UbX'fYUgcbUV`Y'YI hYbg]cb"'KY'kci`X'fYWcaaYbX'mci`fYj]Yk`h\Y'IBGK`GdYW]U` |XYfUh]cb'[i]XY`]bYg'—'gYY'gYWf]cb'VY`ck"

gi Va]gg]cb`k]``bchVY`UVWYdhYX`UbX`k]``VY`Wcbg]XYfYX`Ug`bc`gi Va]gg]cb"

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Wb`Udd`m'Zcf`gdYWJU``Wcbg]XYfUHjcb`H\fci [\`<u>H\Y`Bi WYi g`GH XYbh<i V</u>`k \Yb`]``bYgg`cf`cH\Yf gHUbWfg`]bHYfZyfY`k]H\`mci f`UggYgga YbHdYfZcfa UbWf"`G]W_bYggža]gUXj YbHi fY`cf`cH\Yf gHUbWfg`VYmcbX`mci f`WcbHfc``a Um

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- | BGK `@YUfb]b[`7YblfY`!`<u>k k k "`\\ii bgk "YXi "Ui</u>
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9ei]HUV`Y`@YUfb]b[`GYfj]VW`g`U]a g`hc`dfcj]XY`U```ghi XYbhg`k]h\`U`ZYY`UbX`WcbZ]XYbh]U``gYfj]WY`h\Uh dfcj]XYg`dfUWh]WU``gi ddcfhihc`Ybgi fY`h\Uhimci f`\YU`h\`WcbX]h]cb`XcYgbfhiUXj YfgY`mUZZYWhimci f`ghi X]Yg''` \hhdg.##ghi XYbh'i bgk "YXi "Ui #Y`g

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Mci f``YWi fYf`UbX`h\Y`I b]j Yfg]mik]``YI dYWinci f`gi Va]hYX`Ugg][ba Ybhg`UfY`hfi `minci f`ck b`k cf_"`I BGK \Ug`j YfmWYUf`[i]XY`]bYg`cb`k \Uhd`U[]Uf]ga `]g`UbX`\ck `hc`Uj c]X`]h'`D`U[]Uf]ga `]g`i g]b[`h\Y`k cfXg`cf]XYUg`cZch\Yfg`UbX`dfYgYbh]b[`h\Ya `Ug`nci f`ck b"`D`U[]Uf]ga `]g`U`mdY`cZ]bhY``YWi U``h\YZh'`+i`WUb`hU_Y a UbmZcfa gž`Zīca `XY`]VYfUhY`W\YUh]b[`hc`UVW]XYbhU``mVcdm]b[`Zīca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh' H\Y`I b]j Yfg]mi\Ug`UXcdhYX`Ub`YXi WUh]j Y`UddfcUV\'hc`d`U[]Uf]ga `UbX`\Ug`XYj Y`cdYX`U`fUb[Y`cZ fYgci fWYg`hc`gi ddcfhigh XYbhg''`5```h\Y`XYhU]`g`cb`d`U[]Uf]ga ž`]bWi X]b[`gca Y`i gYZ ``fYgci fWYgž`WUb`VY Zci bX`Uhi<u>k k k "qh XYbh'i bgk "YXi "Ui #d`U[]Uf]ga</u> "

5```A]b]b[`'9b[]bYYf]b['gh XYbhg`UfY`fYei]fYX`hc`Wcad`YhY`U`gh XYbhXYWUfUh]cb`Zcf`UWUXYa]W]bhY[f]hm k \]WX`]g`ci`h]bYX`]b`h\Y`Ugg][baYbhWcj`Yf`g\YYhg"`6mg][b]b[`h\]g`XYWUfUh]cbž`mci``U[fYY`h\Uhmci`f`kcf_`]g mci`f`ckb`cf][]bU``kcf_"

-Zmci 'bYYX'gca Y'UXX]h]cbU``gi ddcfrik]h 'mci f`k f]h]b['g_]``gž'd`YUgY'WcbhUWrih Y`@YUfb]b['7 YbffY`cf'j]Yk gca Y'cZh Y'fYgci fW'g'cb'h Y]f`k YVg]hY. <u>k k k "`Wi bgk "YXi "Ui</u>"''H\Y'@YUfb]b['7 YbffY`]g'XYg][bYX'hc`\Y`d mci ']a dfcj Y'mci f'UWUXYa]Wk f]h]b['UbX'Wca a i b]WUh]cb'g_]``g"'Gca Y'gh XYbg'i gY'h Y'7 YbffY`gYfj]WYg VYWUi gY'h Ym'UfY`Z]bX]b['h,Y]f'Ugg][ba Ybhg'U'W,U``Yb[Yž'ch Yfg'VYWUi gY'h Ymk Ubhhc`]a dfcj Y'Ub'U'fYUXm gi WWYggZ ``UWUXYa]WdYfZcfa UbWY"

- VfcUXVUbX^{*}WcbbYWf]cb^{*}f&) * ^{*}_V]h#gYWcf^{*}ZJghYfŁ
- UV]`]hmihc j]Yk ghfYUa]b[j]XYc fl\][\ cf``ck XYZ]b]h]cb I BGK HJ cdh]cbgŁ

A cfY`]bZcfa Uh]cb'UVci hgmghYa 'fYei]fYa Ybhg']g'Uj U]'UV'Y Uh<u>k k k "ghi XYbh'i bgk "YXi "Ui #a ccX`Y!gmghYa !fYei]fYa Ybhg</u>

5W_bck `YX[Ya YbhcZ7ci bhfm

 $\label{eq:constraint} \begin{array}{l} K_{1}^{*}(UW_{bck}^{*})X_{1}^{*}(V,V) = K_{1}^{*}(V,V) = K_{1}$

5ddYbX]I. '9b[]bYYfg'5ighfU`]U'f195EDfcZYgg]cbU`'9b[]bYYf'7cadYhYbWm GHJbXUfX

Dfc[fUa ʻ=bhYbXYX`@YUfb]b[`CihWcaYg	
?bck`YX[Y'UbX'g_]``'VUgY	
D9%"%7cadfY\Ybg]jYžh\YcfmVUgYX`ibXYfgHJbX]b[`cZh\Y`ibXYfd]bb]b[`bUhifU``UbX d\mg]WJ``gW]YbWYg`UbX`h\Y`Yb[]bYYf]b[`ZibXUaYbHJ`g`Udd`]WJV`Y`hc`h\Y`Yb[]bYYf]b[`X]gW]d`]bY	
D9%"&`7cbWYdhiU``ibXYfgHUbX]b[`cZh\Y`aUh\YaUh]WgžbiaYf]WU``UbU`mg]gžgHUh]gh]WgžUbX WcadihYf`UbX`]bZcfaUh]cb`gW]YbWYg`k\]W\`ibXYfd]b`h\Y`Yb[]bYYf]b[`X]gW]d`]bY	
D9%" `=b!XYdh\`i bXYfgHUbX]b[`cZgdYW]U`]ghVcX]Yg`cZ_bck `YX[Y`k]h\]b`h\Y`Yb[]bYYf]b[X]gW]d`]bY	