MECH3110

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H\]g'We'i fgY'k]``We'bh]bi Y'h\Y'XYj Y'cda YbhcZU'gmghYa Uh]WUddfcUVX 'hc'dfcV'Ya 'gc'j]b['UbX'XYg][b'h\Uh We'a a YbWYX']b'YUf']Yf'We'i fgYg'''H\Y'We'i fgY'Zc``ck g'cb'Zfca 'h\Y']bhfcXi Wf]cb'dfcj]XYX'Vm'9B; ; %\$\$\$ž YgHUY`]g\Yg'h\Y'a UVX]bY'YYA YbhXYg][b'UddfcUVX 'UbX'dfcj]XYg'Ub'cddcfhi b]mhc'Udd`mh\Y'a YVXUb]WU _bck `YX[Y'UbX'hYVXb]ei Yg'[U]bYX'Zfca 'A A 5B &(\$\$`UbX'A A 5B' (\$\$"'Ghi XYbhg'k]``]bhYfUVhUg'dUfhcZU XYg][b'hYUa žk \]Y'XYj Y'cd]b['XYg][b'gc'i h]cbg'Zcf'U'fYU`]gh]WdfcV'Ya 'cZfYUgcbUV'Y'g]nY'UbX'Ve'a d'YI]m' H\Y''YWfi fY'hcd]Vg'fY`UhY'WcgY`mhc'Ugg][ba YbhfYei]fYa Ybhg'k]h\'U'VU`UbVW'VYhk YYb'h\YcfmUbX dfUVh]VW'''5ggYgga Ybhk]``\Uj Y'U'ghfcb['Ya d\Ug]g'cb'dfUVh]WU`'XYg][b'_bck 'YX[Y'UbX'g_]`g'Ug'k Y``'Ug'U \][\'ghUbXUfX'cZdfcZfgg]cbU`'k f]hhYb'UbX'[fUd\]WU`'We'a a i b]WUh]cb"'H\]g'k]``]bWi XY'fYgYUfVX]b[]bZcfa Uh]cb'Zcf'XYg][b'Ugg][ba Ybhg'UbX'gYUfVX]b['Zcf'gc'i h]cbg'Ug'HUg_'gdYV]Z]WUh]cbg'VYVe'a Y'`Ygg We'a d`YhY'UbX'a cfY'fYU`]gh]W'5'dfccZcZWe'bW/dhdfchchmdY'k]``'VY'a Ubi ZJWi fYXž'UggYa V'YX'UbX'hYghYX'hc Ybgi fY'h\Y'XYg][b']g'ZYUg]V'Y'UbX'Z bWf]cbg'Ug'WU]a YX''

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Gi Va]gg]cb'bchYg. 'F Ydcfhhc'VY'gi Va]hYX'hc'Hi fb]h]b'cb'h\Y'Wci fgY'A ccX'Y'dU[Y" 8i Y'XUhY.': f]XUmK YY_', ž&'.)) 8YUX`]bY'Zcf'UVgc`i hY'ZU]`.'') 'XUmg'UZhYf'h\Y'Xi Y'XUhY'' A Uf_g'fYh fbYX.''Hk c'k YY_g'UZhYf'gi Va]gg]cb

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8i Y`XUHY.; fci d`WcbHfUWhXi Y`: f]XUmK YY_`&`Vm&' .))ž9b[]bYYf]b[`XfUk]b[g`Xi Y`A cbXUmK YY_`)`Vm \$-.\$\$ž: YUg]V]`]mighi XmXcW a Ybh]b[`Yb[]bYYf]b[`UbU`mg]g`cZXYg][b`Xi Y`: f]XUmK YY_`)`Vm&' .))ž 7 ca d`]UbW 'HYgh]b[`k]``VY`\Y`X`Xi f]b[`YI Ua 'dYf]cX" **A Uf_g`fYh fbYX.**``5```UggYgga Ybha Uf_g`fYh fbYX`k]h\]b`Hk c`k YY_g`cZgi Va]gg]cb`cZh\Y`fYgdYWf]j Y XY`][YfUVY"

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Gi Vghjhi hY`jhYa	H\Y'a Uf_'Zcf'h\Y'a]ggYX UggYgga Ybh']g'gi Vgh i h hYX k]h\'h\Y'a Uf_'cZUbch\Yf UggYgga Ybh	Y"["`a Uf_'Zcf'Ei]n'%Udd`]YX'U`gc'Udd`]YX'Ug'a Uf_'Zcf Ei]n'&ž'a YUb]b[']ZU'gh XYbhUV&]Yj YX'U'a Uf_'cZ &\$# \$'Zcf'Ei]n'%UbX'k Ug'[fUbhYX'GdYW]U` 7 cbg]XYfUh]cb'Zcf'Ei]n'&ž'U'a Uf_'cZ&\$# \$'k ci`X'VY Udd`]YX'Zcf'Ei]n'&žYhW
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7 ci fgY`WfYX]hi]g`WU`W``UhYX`]b`I b]hg!CZ7fYX]hfI C7Ł"`H\Y`bcfa U``kcf_`cUX`YI dYWfUh]cb`Zcf`cbY`I C7]g`UddfcI]a UhY`m&) `\ci fg`dYf`hYfa "`H\]g`]bWi XYg`WUgg`WcbhUWfi\ci fgž`df]j UhY`ghi Xmž`ch\Yf``YUfb]b[UWf]j]h]Ygž`dfYdUfUh]cb`UbX`h]a Y`gdYbhicb`U```UggYggUV`Y`kcf_"

A cghWci fgYk cf_'Wci fgYg'Uhl BGK 'UfY'*'I C 7 'UbX']bj c'j Y'Ub'YghJa UhYX'%) \$'\ci fg'hc'Wca d`YhYžZcf'Vch fY[i`Uf'UbX']bhYbg]j Y'hYfa g"'9UW\ Wci fgY']bWi XYg'U'dfYgWf]VYX'bi a VYf'cZ\ci fg'dYf'k YY_fh.k Ł'cZ gW\YXi`YX'ZJWY!hc!ZJWY'UbX#cf'cb`]bY'WcbhUWf'5bm'UXX]hJcbU`'hJa Y'VYmcbX'h\Y'dfYgWf]VYX'WcbhUWfi\ci fg g\ci`X'VY'gdYbh']b'a U_]b['gi fY'h\Uhmci 'i bXYfghUbX'h\Y`'YWfi fY'a UhYf]U'ž'Wca d`YhJb['h\Y'gYh Ugg][ba Ybhgž'Z fh\Yf'fYUX]b['z'UbX'fYj]g]b['Zcf'Ubm'YI Ua]bUhJcbg"

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łłH%}&\$&&1 D85H9łł

Di V`]WX]gHUbW]b[`WcbX]h]cbg'a i ghVY'Zc``ck YX'Zcf'U```ZUWY!hc!ZUWY'WUggYg"'Hc'Ybgi fY'h\]gžcb`mghi XYbhg Ybfc``YX']b'h\cgY'WUggYg'k]``VY'U``ck YX']b'h\Y'fcca "'Bc'cj'Yf!Ybfc`a Ybh]g'U``ck YX']b'ZUWY!hc!ZUWY WUggYg"'Ghi XYbhg'Ybfc``YX']b'cb`]bY'WUggYg'WUb'gk Ud'h\Y]f'Ybfc`a YbhZfca 'cb`]bY'hc'cb!WUa di g'WUggYg VmGi bXUmž'K YY_'%"D`YUgY'fYZ'f'hc'mci f'Wci fgYfg'A]WfcgcZhHYUa g'UbX'A ccX'Y'g]hYg'Zcf'a cfY]bZcfa Uh]cb'UVci hWUgg'UhHYbXUbWY'Zcf']b!dYfgcb'UbX'cb`]bY'WUgg'gYWf]cbg#JWf]j]h]Yg"

Mci f`\YU'h`'UbX'h\Y'\YU'h`'cZh\cgY']b'mci f`WUgg`]g'Wf]h]WU``m]a dcffUbh''Mci 'a i ghgfUmUh\ca Y']Zmci 'UfY g]W_icf`\Uj Y'VYYb'UXj]gYX'hc'gY`Z]gc`UhY'Vm<u>BGK_'\YU'h</u>`cf`[cj Yfba YbhUi h\cf]h]Yg'''7 i ffYbhU'Yfhg'UbX'U `]ghcZ\chgdchg'WUb'VY'Zci bX'<u>\YfY</u>'''Mci 'k]```bch'VY'dYbU`]gYX'Zcf`a]gg]b['U'ZUWY!hc!ZUWY'UWh]j]hmXi Y hc']``bYgg'cf'UfYei]fYa Ybh'hc'gY`Z]gc`UhY'''K Y'k]``k cf_'k]h`mci 'hc'Ybgi fY'Wcbh]bi]hmcZ`YUfb]b['Xi f]b[mci f`]gc`Uh]cb'UbX'\Uj Y'd`Ubg']b'd`UVY'Zcf'mci 'hc'WUhX'i d'cb'UbmWcbhYbh'cf`'YUfb]b['UVMjj]h]Yg'mci 'a Um a]gg'''K \YfY'h\]g'a][\hbch'VY'dcgg]V'YZ'Ub'Udd`]WUh]cb'Zcf'ZYY'fYa]gg]cb'a Um'VY'X]gW ggYX''': i fh\Yf]bZcfa Uh]cb']g'Uj U]`UVY'cb'UbmWci fgY'A ccX'Y'cf'HYUa g'g]hY''

+D`WYfHJ]b`WUggfcca `UbX``UVcfUhcfmig]hi Uh]cbg`k \YfY`d\mg]WU``X]gHJbW]b[`WJbbch'VY`a U]bHJ]bYX`cf`h\YfY`]g U`\][\`f]g_`h\Uh]hWJbbch'VY`a U]bHJ]bYXž`ZJWY`a Ug_g`k]``VY`Wcbg]XYfYX`a UbXUhcfmDD9`Zcf`ghi XYbhg`UbX gHJZ'

: cf`a cfY`]bZcfa Uh]cbžd`YUgY`fYZYf`hc`h\Y : 5E g.`<u>\htdg.#k k k "Wcj]X!% "i bgk "YXi "Ui #gUZY!fYh fb!WUa di g!ZJeg</u>

; i]XY`]bYg

5^{**}ghi XYbhgʻUfYʻYI dYWhYX'hcʻfYUXʻUbXʻVYʻZJa]`]Ufʻk]h\ʻI BGKʻ[i]XY`]bYgʻUbXʻdc`]WYg"ʻ=bʻdUfh]Wʻ`Ufž ghi XYbhgʻg\ci `XʻVYʻZJa]`]Ufʻk]h\ʻh\YʻZc``ck]b[.

• <u>5thYbXUbW</u>

- I BGK '9a U]`'5XXfYgg
- GdYWJU``7cbg]XYfUHjcb

• <u>5WUXYa]W<cbYghmUbX`D`U[]Uf]ga</u>

-a U[Y[·]7 fYX]h

5ddYbX]I. '9b[]bYYfg'5ighfU`]U'f195ŁDfcZYgg]cbU`'9b[]bYYf'7cadYhYbWm GHJbXUfX

Dfc[fUa +bhybXYX @YUfb]b[Cihwca Yq ? bck `YX[Y 'UbX'q_]``'VUqY D9%"%7cadfY\Ybq]iYžh\YcfmVUqYXibXYfqHUbX]b[cZh\YibXYfd]bb]b[bUhifU`UbX d/mg]WU`:gW]YbWYg`UbX`h\Y`Yb[]bYYf]b[`Z bXUa YbHU`g`Udd`]WUV`Y`hc`h\Y`Yb[]bYYf]b[`X]gW]d`]bY D9%"& 7 cbW/dhiU`i bXYfqHUbX]b[cZh\Y`a Uh\Ya Uh\Wažbi a Yf]WU`UbU`mg]qžqHUh|qh\WažUbX Weadi hYf'UbX']bZcfaUh]cb'gW]YbWYg'k\]WX'i bXYfd]b'h\Y'Yb[]bYYf]b['X]gW[d`]bY D9%" + + XYdh i bXYfqHbX]b[cZqdYWU`]qhVcX]YqcZ bck YX[Yk]h bhY'Yb[]bYYf]b[X]qWd`]bY D9%"('8]qWFfba YbhcZ_bck YX[YXY]Ycda YbhUbXfYqYUfWXX]fYWfcbg'k]h.jb'h.Y Yb[]bYYf]b[`X]gWJd`]bY D9%") ? bck `YX[Y`cZYb[]bYYf]b[`XYg][b`dfUW]WY`UbX`WcbhYl hi U``ZJW/cfg`]a dUWf]b[`h\Y Yb[]bYYf]b['X]qW[d`]bY D9%"* I bXYfqHJbX]b[cZh\Y'qWcdYždf]bW]dYgžbcfa gžUWVci bHJV]]]h]Yg'UbX'Vci bXg'cZ qi qHU]bUV`Y`Yb[]bYYf]b[`dfUWf\WY`]b`H\Y`qdYW[Z]WX]qW[d`]bY 9b[]bYYf]b['Udd`]WUh]cb'UV]`]m D9&"%5dd`]WUhjcb`cZYghUV`]g\YX'Yb[]bYYf]b[`a Yh\cXg`hc`Wca d`YI 'Yb[]bYYf]b[`dfcV`Ya qc`i]b[D9&"&: `i YbhUdd`]WUhcb'cZYb[]bYYf]b['hYWkb]ei Ygžhcc`g'UbX'fYgci fWfg D9&" 5dd`]WUhjcb`cZgmghYa UhjWYb[]bYYf]b[`gmbh\Yg]g`UbX`XYg][b`dfcWYggYg D9&"('5dd`]WUHcb'cZgmghYa UHWUddfcUWXYg'hc'h\Y'WcbXi WiUbX'a UbU[Ya YbhcZYb[]bYYf]b[dfc Y₩q DfcZYgg]cbU`UbX dYfgcbU`Uhf]Vi hYg D9' "%'9h\]WU``WcbXi WiUbX'dfcZygg]cbU``UVWci bHUV]`]hm D9' "&'9ZYW) Y'cfU`'UbX'k f)HYb'Wca a i b)WU) cb']b'dfcZygq]cbU`'UbX'`UmXca U]bg D9' "' 7 fYUhi Yžibbci Uhi YUbXidfc!UWi YXYa YUbci f D9' "(DfcZygg]cbU`i gY'UbX'a UbU[Ya YbhcZ]bZcfa Uhcb D9' ") CfXYfma UbU[Ya YbhcZgYZzUbX dfcZygq]cbU`WcbXi Wh D9' "* 9ZYWAJ Y HYUa 'a Ya VYfg\]d UbX HYUa 'YUXYfg\]d