

BIOM9541



7 ci fgY`Cj Yfj]Yk

GHJZ`7cbHJW`8YHJ]`g

7cbj Ybcfg

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|-------|--------|--|--|--|
| BUa Y | 9a U]` | | | |
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| BUa Y | 9a U] | | | |
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7ci fgY'8YHJ]`g

I b]hg'cZ7 fYX]h*`

Gi a a UfmicZħY'7ci fgY

9j Yf'k cbXYfYX'`ck `@cfX'cZħY'F]b[g'cf'5j UHf'k YfY'WYUH'X3' <ck `UH'YH'g'a][\hUbU`mgY'ħY V]ca YW'Ub]Wg'cZħY]f'a cj Ya Yb'hg'ħc'Ja d'fcj Y'dYfZ'ca UbW'3'c'f'UVci h'`ck `UXj UbW'g'j]b'k YUfUV'Y ħV'bc'c[m'z'd'`cbY'Uddg'UbX'ga Ufh[Ufa Yb'hg'W'Ub'VY'i gYX'ħc'XY'ħ'W'z'UbU`mgY'UbX'd'fYX]W]b'↑ f]Yg UbX'\YU'ħ'j]ggi Yg'cf'Yj Yb'\Y'd'dYcd'Y'k]ħ'DUf_]bgcb'f]X]gYUgY'k U`_k]ħ'W'cbZ'XYbW'3

H\]g'W'ci fgY'j]b'f'cXi W'g'gh XYb'hg'ħc'ħY'a Yħc'Xg'i gYX'j]b'ħY'UbU`mg]g'cZ\i a Ub'a cj Ya Ybh]b'a YX]W]bY UbX'\YU'ħ'z]b'W] X]b['Udd']W]h'cbg'j]b'gdc'f'V]ca YW'Ub]Wg'UbX'a i gW'cg_Y'Y'ħU'a cXY'j]b["A Yħc'Xg'ħc UbU`mgY'VcX'mgY[a Ybh'UbX'`c]b]h_]bYa U]W]g'z'c]b]h_]bY]h]W]g'z'k cf_ UbX'd'ck Yf'z'a i gWY'Z'cfW'g'UbX UggcW]UH'X'YbYf[m'W'g'ħk]`VY'W'cj YfYX"

5dd]W]h'cbg'cZV]ca YW'Ub]Wg'j]b'W]b]W]z'c'W'W dU]h'cbU'UbX'fY'W'YU]h'cbU'UfYUg'k]`VY'd'fYgYb'ħX"<][\'] [\h'g]b'W] XY'U'W'W'gg'ħc'BYi f'cgW]Yb'W'F YgYU'f'V'5i g'f'U]U]f]g'ħY'!cZ'ħY'!Ufh' 8'a c]h'cb'W'W'dh'fY'UV'Z'f'ħY A c'7 Ud'UV'cf'U'c'f'mg'Y'gg]cbg'"`b'W]g'Y'cZ'7'c'J `8'f'Y'g'f]W]h'cbg'z'j]b'Y'gg'cf'a]g'UXj Ybh'fY'z'cd'ħ'cbg'k]` VY'Uj U]UV'Y'Z'f'gh'XYb'hg'ħc'd'U'f]W]d'Ub'h'fYa c'ħ'm'k]ħ'XYX]W]h'X'cb'j]b'Y'gi ddc'f'hd'fcj]XYX'Z'f'&&&"Ci f Z'W'g'j]g'ħc'cZ'Y'f'ħY'VY'gh'c'cg]V'Y'YU'fb]b['UbX'ħ'U'W]b['Yi d'Yf]Yb'W'k]ħ'U'Z'W'g'cb'\UbX'g'cb'UbX'j]b! d'Y'f'g'cb'YU'fb]b['Yi d'Yf]Yb'W'g'k \Y'f'Y'c'cg]V'Y"

7ci fgY'5]a g

H\Y'U]a g'cZħ]g'W'ci fgY'UfY'ħc.

- % 8Yj Y'cd'i bXYfgh'UbX]b['cZħY'Z]Y'X'cZ\i a Ub'a cj Ya Ybh'g'W]Y'b'W'UbX'X]j Yf'gY'Udd']W]h'cbg'j]b a YX]W]b'Y'z'\YU'ħ'UbX'gdc'f'ħ'
- &" ħ'f'cXi W'g'gh XYb'hg'ħc'ħY'z' bX'Ua Yb'ħU'g'cZ'Ub'U'ħca m'UbX'V]ca YW'Ub]Wg'"
- ' " 8Yj Y'cd'z' bX'Ua Yb'ħU'i bXYfgh'UbX]b['cZ' 8'a c]h'cb'W'W'dh'fY'z[U]h'UbU`mg]g'UbX'a i gW'cg_Y'Y'ħU' a cXY'j]b["
- (" ħ'f'cXi W'g'gh XYb'hg'ħc'UXj UbW'g'j]b'k YU'f'UV'Y'UbX'a cV]Y'ħV'bc'c[]Yg'Z'f'V]ca YW'Ub]W]U'UbU`mg]g'cZ\i a Ub'a cj Ya Ybh'
-) " 9b'UV'Y'gh'XYb'hg'ħc'W]h]W]'m'Udd'f]gY'ħV'bc'c[]Yg'i gYX'Z'f'V]ca YW'Ub]W]U'UbU`mg]g'cZ\i a Ub a cj Ya Ybh'
- *" D'fcj]XY'Ub'Yb[U[]b['Ybj]f'c'ba Ybh'Z'f'gh'XYb'hg'ħc'g'Y'z'cf[Ub]gY'ħY]f'YU'fb]b['UbX'XYj Y'cd'ħ'Ua W'c'UV'cf'U]h'cb'g_]`g'Z'f'Yb[]b'Y'f]b['d'f'c'Y'W'g"

7ci fgY'@YUfb]b['Ci ħ'W'a Yg

5Z'Y'f'gi W'W'gg'z'`m'W'ca d'Y'h]b['ħ]g'W'ci fgY'z'm'ci 'g'`ci 'X'VY'UV'Y'ħc.

| | |
|---|--------------------------------------|
| @YUfb]b['Ci ħ'W'a Y | 95'GHU[Y'%7ca dYħYbW]Yg |
| %'5bU`mgY'\i a Ub'a cj Ya Ybh'g]b['a YW'Ub]W]U'd'f]b]W]d'Yg | D9%'%žD9%'&žD9%' |
| &"8Yg][b'UbX'dYfZ'ca 'Yi dYf]a Ybh'ħ'U'hYj U'i Uħ'\i a Ub a cj Ya Ybh | D9%'%žD9%'&"%žD9%'(žD9' "%ž D9' "*" |
| ' "'7f]h]W]U'm'UbU`mgY'Yi dYf]a Yb'ħU'ci ħ'W'a Yg'j]b'V'f'c'UX'Y'f'W'cb'ħ'I h | D9%'(žD9%') žD9%'&" |

ei]nnYg'k]h']bWb'hj Yg" 'C b']bY' \Y'd' UbX' WUgg' Wc' \UVcfUhc'b']g' Z' fh' Yf'dfcj]XYX' UbX' YbWc'i fU[YX' hc XYj Y'cd' Yb[]bYYf]b["YUXYfg\]d' UbX' h'Ua k cf_ 'g_]"g"

Gi [[YghYX' UddfcUWX' hc' "YUfb]b["'H\]g' Wc'i fgY' fYei]fYg' mci' hc' i bXYfgHUbX' h'Y' YW'i fY' a UHf]U' UbX' h'Yb Udd'm'h'Y' _bck' YX[Y' hc' V]ca YWU' Ub]W' Udd']W]h'cbg" 'h']g']a d'cftU'bh'hc' i bXYfgHUbX' h'Y' Z' bXUa YbH' Wc' bW' d'hg' Ug' g'ccb' Ug' d'cgg]V' Y' UbX' hc' Ug' _Z'cf' \Y'd']Z' mci' Xc' b'chi bXYfgHUbX' "7 ca d' YH' U' h'Y' YW'i fYg' UbX]Z' gca Yh']b[']g' i bWYUf'z'd' YUg' Y' Ug' _ei Ygh'cbg" A U_ Y' gi fY' mci' fYj]Yk' "YW'i fY' b'ch'g' UbX' fYUX' U' "a UHf]U' h'Uh]g' gi [[YghYX' cf' \UbXYX' ci' h' 7 Ugg' d'Uf]W]d'U]h'cb' h' fci [\ UH'Y' bXUbW' U'h' h' cf]U' g'z' UVcfU'hc' f]Yg' UbX [fci d' k cf_]g' YI d'YWYX' UbX' k]' "U' c'k' Z'cf' U' h' f' b' U' h' j' Y' a Y' h' c' X' g' i' c' Z' U' V' g' c' f' V']b[' h' Y' f' Y' j' U' b' h'] b' Z' c' f' a' U' h' c' b"

Bc' d'fYj]ci g' V]ca YWU' Ub]W' YI d'Yf]YbW' 3' B' ch' U' d'fcV' Ya "5g' d'Uf]hc' Z' h']g' Wc'i fgY' mci' U' gc' [Yh' U' W' W' gg' hc' Ub' c' b']b' Y' b' h' f' c' X' i W' c' f' m' o']ca YWU' Ub]W' Wc'i fgY' Z' c' f' m' c' i' f' f' Y' Z' f' Y' b' W' "

5 XX]h]cbU' 7 ci fgY' bZcfa Uh]cb

6]ca YWU' Ub]W']g' h' Y' gh' Xmc' Z' h' Y' Y' Z' Y' W' h' c' Z' a YWU' Ub]W' \d' Y' b' c' a YbU' f' Z' c' f' W' g' z' j' Y' c' W' h' Y' g' z' U' W' W' Y' f' U' h' c' b' g' z' YbYf[]Yg' z' d' c' k' Yf' z' a' ca YbH' U' z' a' ca YbH' g' z' Z']W]h' c' b' z' Z' U' h' [i Y' UbX' Z' U']i fY' c' b' \i a Ub' V' c' X']Yg' " h' fY']Yg' c' b' Ub i bXYfgHUbX]b[' c' Z' a YWU' Ub]W' UbX' Udd']Yg' h' Y' Z' bXUa YbH' g' c' Z' a YWU' Ub]W' hc' h' Y' g' h' i W' i fY' UbX' Z' bW]h' c' b' c' Z' h' Y' \i a Ub' V' c' X' n' f'

6]ca YWU' Ub]W']g' i gYX']b' U' X']i YfgY' f'Ub[Y' c' Z' X']g' W' d']b' Y' g']b' W' i X']b[' V']c' c' [n' z' Yf[c' b' c' a]W' g' z' Yb[]b' Y' Y' f']b[z' d' \m' g']c' c' [m' z' a YX']M']b' Y' z' UbX' a YWU' Ub]W' \d' \m' g']W' g' " A Ub' m' d' f' c' Z' Y' g' g']c' b' U' g' - Yb[]b' Y' Y' f' g' z' X' Y' g' [b' Y' f' g' z' d' \m' g']W' h' Y' f' U' d']g' h' g' z' c' f' U' UbX' c' f' h' c' d' U' Y' X']W' g' i' f' [Y' c' b' g' z' W' U' f' X']c' c' []g' h' g' z' UbX' U' Y' f' c' g' d' U' W' Y' b' []b' Y' Y' f' g' - i' g' Y' d' f' U' W']W' U' Udd']W]h'cbg' c' Z' V]ca YWU' Ub]W' "

6]ca YWU' Ub]W' \Ug' Udd']W]h'cb']b' U' "UfYUg' c' Z' \YU' h' W' U' f' Y' UbX' a YX']W' U' d' f' c' V' Ya 'gc' j']b[' h' Uh' f' Y' e' i']fY' d' \m' g']W' U' a Ub']d' i' U' h' c' b' " h' a Um' V' Y' h' Y' a U' c' f' U' f' Y' U' c' Z' W' c' b' W' f' b']b' g' c' a Y']b' g' h' U' b' W' g' i' f' Y' " "Uf]h' Z' W' U' c']b' h' g' z' d' f' c' g' h' Y' h']W' g' UbX' c' f' h' c' g' Y' g' z' a YWU' Ub]g' a' g' i' c' Z' d' \m' g']W' U']b' f' m' c' i' c' f']h' a Um' V' Y' U' j']h' U' U' X' b' W' h' c' U' b' c' h' Y' f' U' f' Y' U' f' Y' " [" XYg' [b' c' Z' Ub']a d' Ub' h' U' V' Y' d' U' W' a U_ Y' f' c' f' g' d' Y' W']U']g' h' g' i' f' []W' U' h' c' c' g' t' "

H\]g' Wc'i fgY' Wc' j' Yfg']b' XYd' h' h' Y' a Yh' c' X' g' i' gYX']b' h' Y' Ub' U' m' g']g' c' Z' h' Y' V]ca YWU' Ub]W' c' Z' h' Y' \i a Ub a i gW' c' g_ Y' Y' U' g' m' g' h' a " A Y' h' c' X' g' i' c' Ub' U' m' g' Y' V' c' X' m' i' g' Y' [a Y' b' h' U' b' X' c']b' h' _]b' Y' a U' h']W' g' z' c']b' h' _]b' Y' h']W' g' z' k' c' f' _ UbX d' c' k' Yf' z' a i' g' W' Y' Z' c' f' W' g' UbX' U' g' g' c' W' U' h' Y' X' Y' b' Y' f' [m' W' c' g' h' k']' V' Y' W' c' j' Y' f' Y' X' " 5 d' d']W]h'cbg' c' Z' V]ca YWU' Ub]W']b' W]b']W]z' c' W' W' d' U' h' c' b' U' UbX' f' Y' W' Y' U' h' c' b' U' U' f' Y' U' g' k']' V' Y' d' f' Y' g' Y' b' h' X' "

5ggYgga Ybh

| 5ggYgga YbhUg_ | K Y][\h | 8i Y'8UHŸ | 7ci fgY'@YUfb]b[Ci hŸa Yg'5ggYggYX |
|---|----------|--------------------|--|
| %"K YY_`mC b`]bY'E i]nnYg UbX'8]gW gg]cb'6cUfX'Dcghg | ;%\$ | K YY_`m | %ž(ž* |
| &"CdYbG]a `A cXY` 8Ya cbghfU]hcbg | ;%\$ | K YY_g'%ž' ž(/ '+ | %ž&ž(ž* |
| ' " `bXi gfm9b[U[Ya YbhUbX A cV]Y`HYWkbc`c[mF Ydcfh | ;%\$ | K YY_`(` | %ž&ž' ž(ž) ž* |
| ("7ca di h]h]cbU`@JVcfUrcfm F Ydcfh | ;%\$ | K YY_`- | %ž(ž* |
|) " `bX]j]Xi U`A ch]cb'7Udh fy Dfc`YWg | ' \$ | K YY_g`*ž+'UbX`%\$ | %ž&ž' ž(ž) ž* |
| *":]bU`9I Ua | ' \$ | 9I Ua `K YY_` | %ž&ž' ž(ž) |

5ggYgga Ybh%" K YY_`mC b`]bY'E i]nnYg`UbX'8]gW gg]cb'6cUfX'Dcghg

8i Y'XUHŸ. `K YY_`m

K YY_`mDfc[fYgg`fHı E"H\Y`di fdcgY`]g`hc`Ybgi`fy`mci`UfY`a`U_]b[`]ja`Y`midfc[fYgg`h`fci [\`h\Y`cb`]bY
i b]hg" Mci`k`j`bch`h`UhYUWk`cb`]bY`A`ccX`Y`i`b]h`Ug`U`bi`a`VYf`c`Zei`Ygh]cbg`Ya`VYXXYX`h`fci [\ci`h]h`
Mci`f`Ub]gk`Yfg`hc`h`YgY`ei`Ygh]cbg`k`j`VY`c[[YX`UbX`fYVf`fYX`]b`h`Y`[fUXY`Vcc_"Mci`k`j`fYW]j`Y`cbY
WYX]h`f% E`Z`f`YUWk`i`b]h]Zmci`V`a`d`Y`H`k`]h`U`g`V`f`Y`c`Z`U`h`Y`U`gh,`\$|`VY`Z`f`Y`mci`f`g`W`Y`X`i`"YX`"UVcfUrcfm
WUgg`c`Z`h`Y`g`Ua`Y`k`YY_`fl`d`h`c`U`a`U`l`]a`i`a`c`Z`+`WYX]hgE`"h]g`YI`dYWYX`h`Uhmcı`V`a`d`Y`H`h`Y`cb`]bY
A`ccX`Y`i`b]h`VY`Z`f`Y`mci`f`UVcfUrcfm]gYgg]cb`h`Uhk`YY_`"Mci`UfY`h`Y`b`YI`dYWYX`hc`Y`b`U`b`W`mci`f`Y`U`fb`]b[
YI`dYf]Y`b`W`V`m`X`]g`W`gg]b[`h`Y`k`YY_`g`A`ccX`Y`V`b`h`b`h`k`]h`mci`f`XYa`cbghfUrc`f`U`h`h`Y`"UVcfUrcfm]gYgg]cb"

MUmUbX'6cc`flı E`]g`U`][\h\YUfHŸ`UggYgga Ybh`h`Uhk`j`U`ck`mci`hc`g`UfY`mci`f`f]i`a`d`g`UbX`ZU]i`fYg
k`]h`mci`f`V`"YU[i`Yg`Vmidcg]b[`mci`f`fYgi`hg`hc`h`Y`WUgg`A`ccX`Y`Z`f`i`a`"H\Y`di`f`dcgY`]g`hc`Y`b`U`b`W
6€A`-`)(`%Yb[U[Ya Ybh`H\YfY`k`j`VY`h`fY`c`ddc`f`h`b]h]Yg`h`fci [\ci`h`h`Y`g`Ya`Y`gh`f`hc`d`U`f`h]W`d`U`h`]b`h`Y
MUmUbX'6cc`UggYgga Ybh`MUmUbX'6cc`c`ddc`f`h`b]h]Yg`k`j`U`dd`Y`U`f`]b`h`fY`c`Z`h`Y`g`c`Z`k`U`f`Y
`UVcfUrcf]Yg`fG`@%ž`G`@&`UbX`G`@ E`"Mci`k`j`VY`[]j`Y`b`h`Y`c`ddc`f`h`b]h]mci`g`UfY`mci`f`f]i`a`d`l`c`f`ZU]i`fY`k`]h
mci`f`V`"YU[i`Yg`cb`h`Y`X]g`W`gg]cb`V`c`U`f`X`"9UWk`d`c`gh`di`V`]g`Y`X`VY`Z`f`Y`h`Y`X`Y`U`X`]b`Y`k`j`Y`U`fb`mci`cbY
WYX]h`f% E`"8`cb`f`f`i`a`]g`g`ci`h`

5ggYgga Ybh&`C dYbG]a `A cXY`8Ya cbghfU]hcbg

8i Y'XUHŸ. `K YY_g'%ž' ž(/ '+

5HŸ`b`X`U`b`W`Z`f`U`"G`c`Z`k`U`f`Y`@`UVcfUrcfm]gYgg]cbg`fG`@%ž`G`@&ž`G`@ `UbX`G`@(`E`]g`V`a`di`g`c`f`m`":`U]i`fY`hc
U`h`Y`b`X`h`Y`"UVcfUrcfm]WUgg`k`j`a`Y`U`b`h`Uhmcı`W`b`b`c`h`f`Y`W]j`Y`U`[fUXY`Z`f`U`b`m`c`Z`h`Y`U`gg][`ba`Y`b`g
U`g`c`W`U`h`X`k`]h`h`]g`U`g`Y`g`ga`Y`bh`V`a`d`c`b`Y`b`h`

H\Y`Z`i`f`g`c`Z`k`U`f`Y`"UVcfUrcf]Yg`d`f`c`j`X`Y`mci`k`]h`U`b`c`ddc`f`h`b]h]mci`U`b`U`mg`Y`U`b`X`g`]a`i`U`h`Y`i`a`U`b

a cj Ya Ybh'Mci 'k]''VY]bffcXi W'X'hc'h'Y'UbU'mg]g'cZ\i a Ub'a cj Ya Ybhi'g]b['C dYbG]a ž'U'Z'YY'mUj U]'UV'Y
gcZk UfY''Mci 'k]''i gY'h'Y'' 8 'A c7 Ud'XUH'mci 'Wc''YWHXi f]b['h'Y''UVcfUhc'fmigYgg]cb'UhBYi F 5 ']'b'k YY_'&
Ug'k Y''Ug'gUa d'Y'XUH'dfcj]XYX'hc'dYfZc'fa 'j Uf]ci g'UbU'mgYg'cZ\i a Ub'a cj Ya Ybh'Mci 'k]''VY'UggYggYX
VUgYX'cb'mci f'a cXY''UbX'mci f'[fci d'fYgdcbgYg"

H\Y'a Uf_'VfYU_Xck b'ZcfYUWX 'GcZk UfY '@UVcfUhc'fmif&") i 'Łk]''VY'Ug'Z''ck g.

- A cXY''ei U']hmf%) i 'Ł
 - \$'Zcf'bc'a cXY'
 - \$") 'Zcf'k cf_]b['a cXY''k]h'a U'cf'Yffc'fg
 - %'Zcf'k cf_]b['a cXY''k]h'a]bcf'Yffc'fg
 - %) 'Zcf'k cf_]b['a cXY''k]h'ci h'Yffc'fg
- ; fci d'fYgdcbgYg'f% 'Ł'
 - \$'Zcf'a]b]a U''YZcf'h
 - \$") 'Zcf'gca Y'YZcf'hž'Vi ha cfY'fYei]fYX
 - %'Zcf'[ccX'YZcf'hfB'ch'U''[fci d'a Ya VYfg'k]''fYW'j Y'h'Y'gUa Y'a Uf_Ł

"C b]bY': 'YI]V'Y '@YUfb]b[''Gh XYb'g'k]''VY'fYei]fYX'hc'gi Va]h'h'fci [\ 'A ccX'Y'U'k cf_]b['XYa c'cZ'h]Yf
a cXY''i g]b['Dck Yfdc]bh]bg'h'UX'cZUH'Y'bX]b['U'gYgg]cb'UbX'k]''gi Va]h[fci d'fYdcf'g'hc'h'Y'XYX]WUH'YX
cb]bY'gi ddcfhXYa cbgfUhc'f"

5ggYgga Ybh' . : ħXi ghfmi9b[U[Ya Ybh'UbX'A cV]Y'HYW'bc'c[mF Ydcfh

GHUfhXUH'. 'K YY_'"
8i Y'XUH'. 'K YY_'(

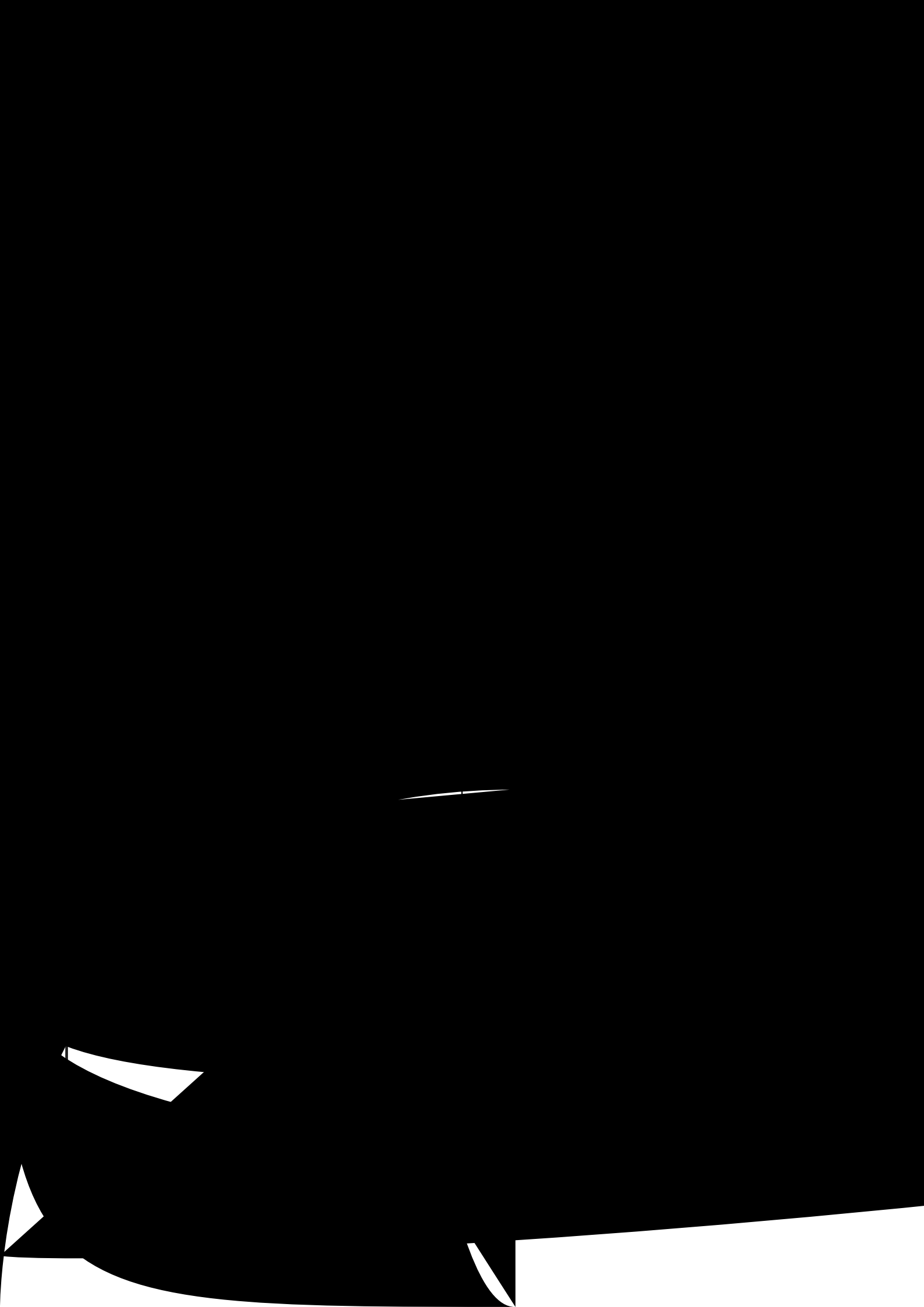
Mci f'h'Ua 'a i ghW'ccgY'VY'hk Y'Yb'6YHU'h'g'h]b['h'Y'GD@N5 'a ch]cb'Udd'f5dd'Y'i gYfg'cb'm'Ł'cf'
ħj Ygh[U]b['h'Y'UWW'fUW'micZUb'ch'Yf'\YU'h'Udd'fU''d\cbY'i gYfg'Ł' C b'm'cbY'fYdc'fhidYf'h'Ua ']'g'fYei]fYX
UbX'g\ci X'Zc'W'g'cb'Y]h'Yf.

6YHU'h'gh'h'Y'GD@MN5 'A ch]cb'f%\$i 'Ł
Gh XYb'g'k]''VYHU'h'gh'h'Y'GD@MN5 'A ch]cb'a cV]Y'd\cbY'Udd'UbX'dfcXi W'U'g\cf'h'fYdc'fh'Zcf'GD@MN5"

hY'Wci fgY'UbX'k]''VY'cdYb!Vcc_''Mci 'k]''VY'dfcj]XYX'k]h'Ub'Yei Uhcb'g\YYhXi f]b['hY'YI Ua žk \]W
k]''VY'a UXY'Uj U]UV'Y'hc'mci 'k Y''VYZcfY'hc'hY'YI Ua 'gc'mci '_bck 'k \Uh'hc'YI dYW'W'A Uf_g'k]''VY
Uk UfXYX'Zcf'Wc'ffY'W'Ubgk Yfg'UbX'Zcf'hY'ei U]hmcZmci f'k cf_]b[žk \]W'k]''\Uj Y'hc'VY'd\c'hc[fUd\YX'UbX
i d'cUXYX'Xi f]b['hY'YI Ua 'dYf]W'k]''\Uj Y'hc'VY'd\c'hc[fUd\YX'UbX

K YY_% '%&GYdHya VYf
! '%* 'GYdHya VYf

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|---|--|--|
| K YY_% '%&GYdHya VYf ! '%* 'GYdHya VYf | | |
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F Ygci fWg

DfYgWf]VYX`F Ygci fWg

C b`]bY` : `YI]V`Y`@YUfb]i b[`ghi XYb]g`UbX`H\i fgXUm@UVcfUhc`fmghi XYb]g`g\ci `X`Vf]b[`hY]f`ck b`Ud]cd W`ca di hYf`hc`GcZk UfY`UbX`7ca di hU]cbU`@UVcfUhc]fYg`k]h`C dYbG]a `UbX`c`hYf`W`fY`gcZk UfY`]bg]U`YX" CdYbG]a `UbX`c`hYf`W`fY`gcZk UfY`]g`Uj U]UV`Y`cb`hY`G5A) % `W`ca di hYfg`UbX`hYgY`k]`VY`i gYX`Zcf`hY Hi YgXUm]UbX`K YXbYgXUm`UVcfUhc`fm]gYgg]cbg`"

F YWca a YbXYX`F Ygci fWg

H\Y`fYWca a YbXYX`VUW_[fci bX`hYI hZcf`h.]g`Wci fgY`UfY.

- F cVYf]gcbz`8"; "9`YhU`"F YgYUfW`a Yh`cXg`]b`V]ca YW]Ub]Wg":]fgh]f`f`gYW`bX`E`YX]h]cbz`<i a Ub ?]bY]h]Wg`z`&\$\$(`f`f`&\$%*`E`"
- K]b]h]fz`8`5`"6]ca YW]Ub]Wg`UbX`a`c]h`f`W`b]f`c`cZ`i a Ub`a`c] Ya Yb]h`H\]fX`YX]h]cbz`>c`b`K]Ym/`Gcbg`z`bW`z`&\$\$)`"

C`hYf`i gYZ`fYZYfYbW`Vcc_g`h.UhUfY`Y`X`]b`hY`I`BGK`@]VfUfmiUfY.

- 9bXYfYz`>"8`"UbX`>"8`"6fcbn]bcz`b]f`cXi`W]cb`hc`V]ca YX]W`Yb[]bYf]b[`z`H\]fX`YX]h]cbz`5W]X`Ya]W DfYggz`&\$%&"
- A Yf]Ua`z`>"@`UbX`@`; "?"fU][Yz`9b[]bYf]b[`a`YW]Ub]Wg`z`G]I`h`YX]h]cbz`>c`b`K]Ym/`Gcbg`z`&\$\$`,`"

Gh XYb]g`gYY_]b[`UXX]h]cbU`fYgci fWg`W]b`U`gc`cV]U]b`Ugg]g]h]UbW`Zca`hY`I`BGK`@]VfUfmiU] [\htd.##\]VfUfmi`bgk`"YXi`"Ui`#`](#)

5XX]h]cbU`fYUX]b[g`UbX`fYWca a YbXYX`k YVg]h]g`k]`VY`]g]h`X`cb`A`ccX`Y`k`Y`b`f`Yei`]fYX`"

7ci fgY`9j U`i U]cb`UbX`8Yj Y`cda Ybh

Gh XYbhZYXVUW`Ug`Y`dYX`hc`g`UdY`UbX`XYj`Y`cd`h.]g`Wci fgYz`]bWi`X]b[`ZYXVUW`cV]U]bYX`Zca`cb!]bY`Yj`U`i`U]cbg`Ug`dUf]cZ] BGK`'g`a`m]l`dYf]YbW`d]f`W`gg`"Mci`f`ZYXVUW`]g`a`i`W`UddfYW]U]h`X`UbX`hU`Yb`j`YfmgYf]ci`g`m`"7`cb]h]bi`U`]a`d]f]c] Ya Yb]g`UfY`a`UXY`hc`hY`Wci`fgY`VUgYX`]b`dUf]cb`gi`W`ZYXVUW`UbX`h.]g`Y`d`g`i`g`hc`]a`d]f]c] Y`hY`Wci`fgY`Zcf`Z`hi`fY`ghi`XYb]g`"bZca`U`ghi`XYbhZYXVUW`]g`U`gc`gci`[`h`ZYei`Ybh]h]fci`[`h]ci`h]hY`gYa`Yg]h]f`UbX`i`gYX`hc`Ugg]g]h]b`hY`d]f]c`fYgg]cb`cZ`hY`Wci`fgY`"

@UVcfUhc`fmK`cf_g`d`bZca`U]cb

Gh XYb]g`k]`VY`f`Yei`]fYX`hc`g][`b`7`C`J`-`8`%`gUZ`XYWUfU]cbg`VYZcfY`U]h]bX]b[`U]b]m]Z]W`!`h]c]Z]W`"UVcfUhc`fm`gYgg]cbg`U]h]B]Yi`F`5`g]g]h]U]h]c]Z`hY]U]f]h]A`c`7`Ud`UVz`k`h]W`]b]Wi`XYg`Yj`]X]YbW`c`Z]`UW]b]U]h]cb`"

Gi Va]gg]cb'cZ5ggYgga YbhiHUg_g

@UVcfUhcfmfYdcfhg'UbX'a U'cf'Ugg][ba Ybht'k]''fYei]fY'U' [Bcb'D'U\[\]Uflga'8YWUfUhc'7cj'Yf'G\YYH'](#)

5gg][ba Ybht'g\ci'X'VY'gi Va]hYX'cb'hja Y''5'XU]mdYbU'hmcZ) i' cZhY'a Uf_g'Uj U]UV'Y'Zcf'hUh
Ugg][ba Ybhk]''Udd'mZcf'k cf_'fYW'j YX'UZf'hY'Xi Y'XUH''5bmiUgg][ba Ybhia cfY'hUb') 'XUmj''UH'k]''bch
VY'UWV'dhX''H\Y'cb'mYI Ya dh]cb'k]''VY'k \Yb'df]cf'dYfa]gg]cb'Zcf''UH'gi Va]gg]cb'\Ug'VYYb'[fUbhX'Vm
hY'7ci fgY'W'cfX]bUhc''9I hYbg]cbg'k]''VY'[fUbhX'cb'mcb'a YX]WJ''cf'W'a dUgg]cbUH'[fci bXg'i bXYf
YI hfYa Y'W'fW'a ghUbV'g"

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D@5; =F =GA

6Yk UfY`5b`Ugg][ba YbhUUh]bWl XYg`d`U[]Uf]gYX`a UHf]U`k]`fYW]j Y`U`\$i : U]žUbX`gh XYbhtg`k \c d`U[]Uf]gY`a UmZ]`hY`Wci fgY`Gh XYbhtg`k \c d`U[]Uf]gY`k]`Uj Y`hY]f`bUa Yg`YbHYfYX`cb`U`d`U[]Uf]ga fY[]ghf`UbX`k]`VY`]UV`Y`hc`X]gW]d`]bUfmiUW]cbž]bWl X]b[`Yl Wl g]cb`Zca `Ybfc`a Ybh`
#]g`Yl dYWYX`hUUhU`gh XYbhtg`a i ghUUhU`h]a Yg`gi Va]hY]f`ck b`k cf`_`Zcf`UggYgga Ybh`Gi Va]h]b[`hY k cf`_`cf`]XYUg`cZgca YcbY`Y`gY`k]h]ci hWYUfmiUW_bck`YX[]b[`hY`gci fW`cZVcffck YX`a UHf]U`cf`]XYUg`]g d`U[]Uf]ga "

5`UggYgga Ybhtg`k \]Wl`mci `UbX`]b`a i gh`Uj Y`U`[Bcb`D`U\[\]Uf\]ga`8YWUfU\]cb`7cj Yf`G`YYH`H\\]g`\]g`Zcf Vch`\]bX\]j \]Xi U`UbX`\[fci d`k cf`_`5HUVW`\]h\]c`mci f`Ugg\]\[ba YbhVYZcfY`gi Va \]h\]b\[`\]h\]c`hY`7ci fgY 7ccfX\]bUhc`f`cf`Uh\]hY`GVXcc`C Z\]W"](#)

D`U[]Uf]ga `]g`hY`i gY`cZUbchYf`dYfgcb`g`k cf`_`cf`]XYUg`Ug`]ZhYmik YfY`mci f`ck b`K \Yb`]h]g`bYW]ggUfmicf XYg]fUV`Y`hc`i gY`chYf`dYcd`Y`g`a UHf]U`mci `g`ci `X`UXYeI UH`mUW_bck`YX[Y`k \cgY`k cfXg`cf`]XYUg`hYm UfY`UbX`k \YfY`mci `Zci bX`hY`a `f`]j]b[`hY`Wca d`YH`fYZYfYbW`XYH]`gž]bWl X]b[`dU[Y`bi a VYffg]H`Y @YUfb]b[`7YbHY`dfcj]XYg`Z`fH`Yf`]bZcfa U]cb`cb`k \UhWcbgh]h`H`g`D`U[]Uf]ga `Uh \Hdg`#gh XYbhi bgk "YXi "Ui #d`U[]Uf]ga

K Y'UW_bck`YX[Y'hY'6YXY[U'dYcd`Y`k \c`UfY`hY`hfUX]hcbU`W gfcX]Ubg`cZhY`UbXg`cb`k \]W`I`BGK
? Ybg]b[hcb`Wla`di`g`]g`cWU`hYX"

