15-451 Algorithms, Spring 1997
Assignment 4

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February 18, 1997

Problem 1

In order to compile this, run **latex sample.tex** on your favorite unix machine. This will create a file called *sample.dvi*. In order to view this, run **xdvi sample.dvi &**. You can leave this running and it will automatically update when you re-run latex on your revised document.

To produce postscript, do **dvips sample.dvi -o sample.ps**. To print this, do **lpr sample.ps**. Just edit this file to do your next assignment. Now you're stylin'.

If latex complains about the fullpage.sty file, just remove "fullpage" from the first line. Or you could do **setenv TEXINPUTS /afs/cs.cmu.edu/user/dr/Latex:** and it will get the file from my directory.

Problem 2

Here is some of the mathematical stuff you can do. In line formulae are done with $ signs, like this $x, x^2, x_i, \sqrt{x+y}, f(x) = O(n \log n)$ and $f(x) = \Omega(n \log n)$, therefore $f(x) = \Theta(n \log n)$. There are lots of built in symbols: $\leq \div \star \dagger \in \subseteq \rightarrow \spadesuit \alpha \beta \gamma$ and built in functions and operators: $\ln \log \sum \int \max$.

You can also do formulae on a line by themselves:

$$\sum_{i=1}^{n} \frac{\binom{n}{i}}{n!}$$

There is truly no end to the magic.