1

```
\begin{tabular}{ll} \verb+ vover \\ \verb+ atop \\ \verb+ above $\langle dimen \rangle$ \\ \verb+ choose \\ \verb+ brace \\ \verb+ brack \\ \end{tabular}
```

These commands stack one subformula on top of another one. We will explain how **\over** works, and then relate the other commands to it.

\over is the command that you'd normally use to produce a fraction. If you write something in one of the following forms:

```
$$\langle formula_1 \rangle \operatorname{ver} \langle formula_2 \rangle $$ $$\langle formula_1 \rangle \operatorname{ver} \langle formula_2 \rangle \\ \operatorname{left} \langle delim \rangle \langle formula_1 \rangle \operatorname{ver} \langle formula_2 \rangle \operatorname{left} \langle delim \rangle \\ {\langle formula_1 \rangle \operatorname{ver} \langle formula_2 \rangle }
```

you'll get a fraction with numerator $\langle formula_1 \rangle$ and denominator $\langle formula_2 \rangle$, i.e., $\langle formula_1 \rangle$ over $\langle formula_2 \rangle$. In the first three of these forms the **\over** is not implicitly contained in a group; it absorbs everything to its left and to its right until it comes to a boundary, namely, the beginning or end of a group.

You can't use **\over** or any of the other commands in this group more than once in a formula. Thus a formula such as:

```
$$a \over n \choose k$$
```

isn't legal. This is not a severe restriction because you can always enclose one of the commands in braces. The reason for the restriction is that if you had two of these commands in a single formula, TEX wouldn't know how to group them.

The other commands are similar to **\over**, with the following exceptions:

- \atop leaves out the fraction bar.
- \above provides a fraction bar of thickness $\langle dimen \rangle$.
- \choose leaves out the fraction bar and encloses the construct in parentheses. (It's called "choose" because $\binom{n}{k}$ is the notation for the number of ways of choosing k things out of n things.)
- \brace leaves out the fraction bar and encloses the construct in braces
- \brack leaves out the fraction bar and encloses the construct in brackets.

 $\mathbf{2}$ \ $\S heta$

Example:

produces:

$$\frac{n+1}{n-1} \qquad \frac{n+1}{n-1} \qquad \frac{n+1}{n-1} \qquad \binom{n+1}{n-1} \qquad \binom{n+1}{n-1} \qquad \binom{n+1}{n-1}$$