

## 1

`\ifnum`  $\langle number_1 \rangle$   $\langle relation \rangle$   $\langle number_2 \rangle$

This command tests if  $\langle number_1 \rangle$  and  $\langle number_2 \rangle$  satisfy  $\langle relation \rangle$ , which must be either ‘<’, ‘=’, or ‘>’. The numbers can be constants such as 127, count registers such as `\pageno` or `\count22`, or numerical parameters such as `\hbadness`. Before performing the test, T<sub>E</sub>X expands tokens following the `\ifnum` until it obtains a sequence of tokens having the form  $\langle number_1 \rangle$   $\langle relation \rangle$   $\langle number_2 \rangle$ , followed by a token that can’t be part of  $\langle number_2 \rangle$ .

*Example:*

```
\count255 = 19 \ifnum \count255 > 12 true\else false\fi
```

*produces:*

```
true
```