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The Iterator

In general-purpose T_EX programming (as opposed to typesetting with T_EX), one of the most commonly needed techniques is the ability to iterate over an unknown number of parameters. If the number is known to be nine or less in advance, T_EX is quite capable of doing all that is necessary with only a little help from the user. However, if the number of parameters may exceed ten, then a rather more devious approach will be required.

```
\def \forall #1#2\do #3{#3 {#1}\ifx \relax #2\relax
  \else \forall #2\do {#3}\fi}
```

Sample usage:

```
\def \debug #1{\message {[#1]}#1 }
\forall 1234abcd{ef}{ghi}etc...\do {\debug}
```