In general-purpose \TeX\ programming (as opposed to typesetting with \TeX\), 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, \TeX\ 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\}