1

\mathchoice $\{\langle math_1 \rangle\}$ $\{\langle math_2 \rangle\}$ $\{\langle math_3 \rangle\}$ $\{\langle math_4 \rangle\}$

This command tells T_EX to typeset one of the subformulas $\langle math_1 \rangle$, $\langle math_2 \rangle$, $\langle math_3 \rangle$, or $\langle math_4 \rangle$, making its choice according to the current style. That is, if T_EX is in display style it sets the \mathchoice as $\langle math_1 \rangle$; in text style it sets it as $\langle math_2 \rangle$; in script style it sets it as $\langle math_3 \rangle$; and in scriptscript style it sets it as $\langle math_4 \rangle$.

Example.

The strange formula mc_{mc} illustrates a mathchoice.

produces:

The strange formula $\boldsymbol{T}_{S_{SS}}$ illustrates a math choice.