1

```
\ifhmode
\ifvmode
\ifmmode
\ifinner
```

These commands test what mode TₑX is in:

- `\ifhmode` is true if TₑX is in ordinary or restricted horizontal mode.
- `\ifvmode` is true if TₑX is in ordinary or internal vertical mode.
- `\ifmmode` is true if TₑX is in text math or display math mode.
- `\ifinner` is true if TₑX is in an "internal" mode: restricted horizontal, internal vertical, or text math.

Example:

```
\def\modes{{\bf
   \ifhmode
      \ifinner IH\else H\fi
   \else\ifvmode
      \ifinner \hbox{IV}\else \hbox{V}\fi
   \else\ifmmode \hbox{M}\else
      error\fi\fi\fi}}
Formula $\modes$; then \modes,
   \hbox{next \modes\ and \vbox{\modes}}.
\par\modes
```

produces:

Formula **M**; then **H**, next **IH** and **IV**.
V