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\ifhmode \ifvmode \ifmmode \ifinner

These commands test what mode TFX is in:

- \ifhmode is true if T_EX 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
    \ifnmode
    \ifinner IH\else H\fi
    \else\ifvmode
    \ifinner \hbox{IV}\else \hbox{V}\fi
    \else\ifnmode \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
```