The **needspace** package[*]

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Provides commands to reserve space at the bottom of a page. If there is not enough space on the current page (column) a new page (column) is started.

1 Example uses:

```
... previous text.\par
\needspace{5\baselineskip} % need next 5 lines on a single page/column
The next five lines ...

\Needspace*{4\baselineskip} % need 4 lines kept on same page
   The major principles are:
\begin{itemize}
\item ...
```

The \needspace macro reserves an *approximate* amount of space (depending on what penalties are in effect) but is efficient and normally adequate. A short page will be ragged bottom even if \flushbottom is in effect.

\Needspace is less efficient but reserves the requested space. It should only be used between paragraphs. Short pages produced by \Needspace{⟨*length*⟩} will be ragged bottom but short pages produced by \Needspace*{⟨*length*⟩} will be flush bottom if \flushbottom is in effect.

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[*]This manual corresponds to needspace v1.3b, dated 2009/09/03.
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2 Changes:

Changes v1.3b (2009/09/03) New maintainer (Will Robertson)

Changes v1.3a (2003/02/18) At the suggestion of Donald Arseneau (private emails) changed guts of `\needspace` from ... `\vskip\z@\@plus\dimen@\pagebreak[3]` `\vskip\z@\@plus-\dimen@\endgroup}`

Changes v1.3 (2003/02/07) Added `\Needspace` (an extended version of postings by Donald Arseneau to `comp.text.tex` e. g., in November 1993, August 1995, September 1997, ...)

Changes v1.2 (2002/09/11) At the suggestion of Robin Fairbairns, added use of `\dimen@` to capture the argument so that `calc` package commands can be used in the argument.