The \texttt{ntabbing} environment\footnote{The latest version of this file and the associated latex style can be found at ftp://ftp.math.tau.ac.il/pub/stupp/latex.}

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Abstract

The \texttt{ntabbing} environment is an extension of the \texttt{tabbing} environment that supports automatic line numbering. The lines can be referenced using the standard \texttt{\label} and \texttt{\ref} mechanism.

1 Introduction

Figure 1 shows an \texttt{ntabbing} environment example and its corresponding latex output. Every line inside the \texttt{ntabbing} environment which is labeled is automatically numbered. The lines can be referenced from within the environment or from the outside. If a line just needs to be numbered, \texttt{\label{}} can be used. Line numbers can be reset back to one at any point using the \texttt{\reset} command (line numbering continues across \texttt{ntabbing} environments)

2 User Interface

\begin{ntabbing}
\end{ntabbing} The text that needs to be numbered should start with \texttt{\begin{ntabbing}} and end with \texttt{\end{ntabbing}. The \texttt{ntabbing} environment is an extension of the \texttt{tabbing} environment and all the tabbing commands are supported.

\texttt{\label{}} The \texttt{\label{}} command automatically numbers the line with the current sequence number. It can appear at any point in a line up to the \texttt{\\}.

\texttt{\label{xxx}} Like \texttt{\label{}} but the line can be referenced using \texttt{\ref{xxx}}.

\texttt{\reset} Resets line numbering. Line numbers can be reset several times in the environment. Notice that line numbers are not automatically reset at the beginning of every \texttt{ntabbing} block.
Recursion example (Function $f$, Line~\ref{rec}).
\begin{verbatim}
int $f$(int $i$)\label{}\nonumber\\
>if ($i<2$) return($i$); \label{}\\
>return $i$*$f$($i-1$); // recurse\label{}\\
\end{verbatim}

Recursion example (Function $f$, Line 2).
\begin{verbatim}
int $f$(int $i$)\nonumber\\
1: if ($i < 2$) return($i$);\label{}\\
2: return $i$*$f$($i-1$); // recurse\label{}\\
\end{verbatim}

int main()\label{}\nonumber\\
1: for $i$:=1 to 10\label{}\nonumber\\
2: $s$:= $s$+$f(i)$;\label{}\\
3: return(s);\label{}\nonumber\\
\end{verbatim}

\textbf{Figure 1}: Simple ntabbing example.