The **forloop** package*

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The **forloop** package defines two commands `\forloop` (preferred usage) and `\forLoop` (deprecated).

## 1 Implementation

\begin{verbatim}
\forloop[⟨step⟩]{⟨counter⟩}{⟨initial value⟩}{⟨condition⟩}{⟨code⟩}
\newcounter{ct} \forloop{ct}{1}{\value{ct} < 10}{\arabic{ct}}

1 \newcommand{\forloop}[5][1]%
2 {%
3 \setcounter{#2}{#3}%
4 \ifthenelse{#4}%
5 {#5%
6 #5%
7 \addtocounter{#2}{#1}%
8 \forloop[#1]{#2}{\value{#2}}{#4}{#5}%
9 %}
10 Else
11 %}
12 %

\forLoop[⟨step⟩]{⟨start⟩}{⟨stop⟩}{⟨counter name⟩}{⟨code⟩}
\newcommand{\forLoop}[5][1]%
13 {%
14 \setcounter{#4}{#2}%
15 \ifthenelse{ \value{#4}<#3 }%
16 {\value{#4}<#3 %}
17 %
18 #5%
19 \addtocounter{#4}{#1}%
20 \forLoop[#1]{\value{#4}}{#3}{#4}{#5}%
21 %
22 % Else
23 %
\end{verbatim}

*This document corresponds to `forloop` v3.0, dated 2006/09/18.*
\texttt{\textbackslash ifthenelse\{\textbackslash value\{#4\}=#3\}%
\texttt{\textbackslash \%
\texttt{#5\%
\texttt{27 \}}%
\texttt{28 \textbackslash \% \textbackslash Else
\texttt{29 \%}
\texttt{30 \}}%
\texttt{31 \}}

Change History

v1.0
General: Initial Release \texttt{........... 1}

v2.0
General: Re-wrote forloop command after discovering that whilendo took too many re-
work \texttt{.................. 1}

v3.0
General: total restructure of forloop command to make nested loops

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