Example 4: `syntax` pkg, default settings

```
1  % \usepackage{syntax}
2
   \begin{grammar}
4    <statement> ::= <ident> `=' <expr>
     \alt `for' <ident> `=' <expr> `to' <expr> `do' <statement>
6    \alt `{' <stat-list> `}'
     \alt <empty>
8
     <stat-list> ::= <statement> `;' <stat-list> | <statement>
10 \end{grammar}
```

$\langle statement \rangle ::= \langle ident \rangle$ '=' $\langle expr \rangle$
  | 'for' $\langle ident \rangle$ '=' $\langle expr \rangle$ 'to' $\langle expr \rangle$ 'do' $\langle statement \rangle$
  | '{' $\langle stat\text{-}list \rangle$ '}'
  | $\langle empty \rangle$

$\langle stat\text{-}list \rangle ::= \langle statement \rangle$ ';' $\langle stat\text{-}list \rangle$ | $\langle statement \rangle$

Example 5: `syntax` pkg, modified settings

```latex
1  % \usepackage{syntax}
2
   \makeatletter
4  \setlength{\grammarparsep}{10pt plus 1pt minus 1pt}
   \settowidth{\@tempdima}{\textit{<statement>}}
6  \addtolength{\grammarindent}{\@tempdima}
   \makeatother
8
   \begin{grammar}
10   <statement> ::= <ident> `=' <expr>
                 \alt `for' <ident> `=' <expr> `to' <expr> `do'
                 ↪   <statement>
12               \alt `{' <stat-list> `}'
                 \alt <empty>
14
     <stat-list> ::= <statement> `;' <stat-list> | <statement>
16 \end{grammar}
```

$\langle statement \rangle \quad ::= \ \langle ident \rangle \ `=\text{'} \ \langle expr \rangle$
$\qquad\qquad\qquad | \quad `\texttt{for}\text{'} \ \langle ident \rangle \ `=\text{'} \ \langle expr \rangle \ `\texttt{to}\text{'} \ \langle expr \rangle \ `\texttt{do}\text{'} \ \langle statement \rangle$
$\qquad\qquad\qquad | \quad `\texttt{\{}\text{'} \ \langle stat\text{-}list \rangle \ `\texttt{\}}\text{'}$
$\qquad\qquad\qquad | \quad \langle empty \rangle$

$\langle stat\text{-}list \rangle \quad ::= \ \langle statement \rangle \ `;\text{'} \ \langle stat\text{-}list \rangle \ | \ \langle statement \rangle$