

## Answers to the exercises for chapter: T<sub>E</sub>X – macro programming

1. 

```
\def\n{\bgroup\catcode'\#=12 \catcode'\_ =12 \ttfamily
\let\next=}
This is a \n{short} piece of \n{test_text}.
Output:
This is a short piece of test_text.
```
2. 

```
\newcount\ntees
\def\tees#1#2{\ntees=#2 \def #1{}\ttees#1}
\def\ttees#1{
\ifnum\ntees>0
\edef\tmp{\def\noexpand#1{#1T}}\tmp
\advance\ntees by -1 \ttees#1 \fi}
\tees\sept7 \sept
Output:
TTTTTTT
```
3. 

```
\def\LeftDelim{(\def\RightDelim{)}
\def\DefineWithDelims#1%
{\edef\tmp{\def\expandafter\noexpand\csname#1\endcsname
\LeftDelim ###1\RightDelim}
\tmp}
\DefineWithDelims{foo}{The argument is '#1'.}
\foo(bar) % note the parentheses!
Output:
The argument is 'bar'.
```