Exercises for chapter: T_EX – macro programming

- Write a macro \intt ('in typewriter type') such that \intt{foo} and \intt{foo_bar} are output as foo and foo_bar, in typewriter type.
- 2. Write a macro that constructs another macro: \tees\three3 should be equivalent to \def\three{TTT}, \tees\five5 equivalent to \def\five{TTTTT} et cetera. In other words, the first argument of \tees is the name of the macro you are defining, the second is the number of letters 'T' the defined macro expands to. To make sure that your solution really expands to that string of 'T's, and not some code that generates it when the macro is called, do \show\five and check the screen output.
- 3. TEX natively has addition, multiplication, and division arithmetic. Write a square root routine in TEX. Hint: Use Newton's method.
- 4. Make this work:

```
\def\LeftDelim{(}\def\RightDelim{)}
\DefineWithDelims{foo}{My argument is '#1'.}
\def\LeftDelim{<}\def\RightDelim{>}
\DefineWithDelims{bar}{But my argument is '#1'.}
\foo(one)\par
\bar<two>
Output:
    My argument is 'one'.
    But my argument is 'two'.
In other words, \DefineWithDelims defines a macro – in this case \foo –
and this macro has one argument, delimited by custom delimiters. The
delimiters can be specified for each macro separately.
Hint: \DefineWithDelims is actually a macro with only one argument.
Consider this code snippet:
\Define{foo}{ ... #1 ...}
\def\Define#1{
```

\expandafter\def\csname #1\endcsname##1}