

## CWEB Example

CWEB is the one of the most common literate programming tools. It is installed on most unix systems (e.g. `unix.cs.tamu.edu`) and it comes with cygwin on Windows operating systems.

**Plain T<sub>E</sub>X.** Suppose that you have a file containing your CWEB literate program (such as `wc.w`). You extract and compile the C code as follows:

```
ctangle wc.w
```

This creates the C file `wc.c` and you can compile it with

```
gcc wc.c
```

You can extract and compile the documentation as follows:

```
cweave wc.w
```

This creates the T<sub>E</sub>X file `wc.tex`. You can create a pdf file by

```
pdftex wc.tex
```

*Remark.* On Windows systems, `ctangle` and `cweave` are called `ctangle.exe` and `cweave.exe`, respectively. You can google ‘cweb manual’ to find the documentation of CWEB.

**L<sup>A</sup>T<sub>E</sub>X.** If you prefer to write the documentation in L<sup>A</sup>T<sub>E</sub>X, then you can use the `cweb` class. Google ‘cweb class schrod’ to find the documentation of the `cweb` class.