I. What is a Loop?

A. A way to perform repetitive execution.

B. Two types in C -- while and for.
What is a Loop?, cont’d

C. Looping involves a number of key concepts:

1. Knowing how to stop a loop.
2. Counting loop variables up or down.
3. Computations that accumulate a value.
4. Loops within other loops.
II. A First While Loop Example

examples/loops/stats-while.c
III. Up-Counting While Loop

examples/loops/
loops/stats-while-count-up.c
IV. Program 1 Solution, with a Loop

examples/loops/

make_change_with_loop.c
V. Program 1, with a Char Sentinel Loop

```c
examples/loops/
make_change_with_char_sentinel.c
```
VI. *for* Loops

examples/loops/stats-for.c
VII. Shorter Version of \texttt{for} Loop Program

\begin{verbatim}
examples/loops/
stats-for-shorter.c
\end{verbatim}
VIII. A Short and Ugly Version

examples/loops/
stats-for-short-and-ugly.c
IX. Highlights of Chapter 5 in the Book