Lecture 10

Chapter 4.3
Topics

- Assert
- Driver programs
- Stubs
Assert

- Is a statement that is either true or false.
- Used to check correctness of code.
  - If it is true then nothing happens
  - If it is false then the program ends and an error message is issued.
  - It needs to be included
    - #include <cassert>
    - assert(integer >= 0);
Assert

• Once the code has been tested the asserts can be turned off

• Place
  – #define NDEBUG
  – Before the include

Example
#define NDEBUG
#include <cassert>
Driver program

- A driver program is written specifically to test a function.
- They are minimal programs (just enough to test the function)
Stub

• Sometimes it is difficult to test a function without calling other functions.
• Sometimes the function being called has not been written or tested.
• A stub takes the place of the function being called.
• It is not meant to give the exact value but will deliver sufficient values for testing.