Sending Output to a File

Sending output to a file requires some extra steps in your program. The program shown below uses both file I/O and stream I/O.

Example 1:

```
#include <iostream>
#include <fstream>
                                   // needed to use a file
using namespace std;
int main()
    int x, y;
    ofstream outfile("p2output.txt"); // file declaration declares outfile
                                    // as internal name. Creates, names,
                                    // & opens disk file p2output.txt
                                    // and associates it with outfile
    cout << "This line goes to the screen" << endl;</pre>
    outfile << "This line goes to the output file" << endl;
    x = 10;
    cin >> y;
    outfile.close();
                                   // closes file
    return 0;
}
```

Location of Declaration

Declaring the file may be done inside the main program as shown in these examples, or it may be done above main. Declaring the file above main makes the file available for use in the main program as well as in other functions the program uses (see Chapter 5).* The file must be opened before the first use of the file. Do not open a file more than once (unless you close it in between), because each call to open() starts reading or writing over again at the beginning of the file. *The part in bold is critical for Assn 3, which will be based on Chapters 4 and 5.

Example 2:

Here are the steps needed to send output to file "p3.out"; the file declaration is above main: