```
[cody@fedora homework-1 (git:hw1)]$ ls
bookType.cpp   bookType.h.gch   memberType.cpp   memberType.h.gch
bookType.h     main.cpp         memberType.h     structExercise.cpp
[cody@fedora homework-1 (git:hw1)]$ g++ *.h *.cpp -std=c++11 -o out
[cody@fedora homework-1 (git:hw1)]$ ls
bookType.cpp   bookType.h.gch   memberType.cpp   memberType.h.gch   structExercise.cpp
bookType.h     main.cpp         memberType.h     out
[cody@fedora homework-1 (git:hw1)]$ ./out
For problem 2...
~~~~~~~~~~~~~~~~
Enter x and y coordinates: 1 2
Enter a second x and y coordinate: 3 4
The distance between (1, 2) and (3, 4) is 2.82843.

For problems 3 and 4...
~~~~~~~~~~~~~~~~~~~~~~~~
Before purchase...
==================
Title:  Complex Analysis
Author: Joseph Bak
ISBN:   0-387-90615-0
        Price: $45.93
        Number sold:     0
        Number in stock: 25

Member name: Vig, Cody
Member ID: 101909650
        Number of books purchased: 0
        Amount spent: $0.00

Thank you for your purchase, Cody!

After purchase...
=================
Title:  Complex Analysis
Author: Joseph Bak
ISBN:   0-387-90615-0
        Price: $45.93
        Number sold:     1
        Number in stock: 24

Member name: Vig, Cody
Member ID: 101909650
        Number of books purchased: 1
        Amount spent: $45.93

[cody@fedora homework-1 (git:hw1)]$
```