CS250 Intro to CSII
Array of Structs Lab

BookInfo

The purpose of today's lab is to continue developing the Books database from last class using arrays of structs. You are to write and test each of the following functions:

1) Write a function printBook that prints out a single book to the screen or a file as shown below. The function will have one parameter of type BookInfo. Test your function.

> Title: Starting Out With C++
> Author: Tony Gaddis
> Publisher: Addison-Wesley
> Price: $150.00

2) Write a function readBook that reads in a single book from either the keyboard or from a file. The function will have two parameters, a BookInfo reference and an istream reference. As titles, authors, and publishers can have spaces in the names, you will need to use getline and a good reference is http://www.cplusplus.com/reference/istream/istream/getline/.

NOTE: You will need to eat the newline character at the end of reading mPrice.

3) Write a function readAllBooks that reads in all of the books from the file into the array of books. This function will call the function in step 2. Test your function.

4) Write a function printBooks that will display all of the books in the array to the screen. This function will call the function in step 1. Test your function.

5) Write a function printBooksBelowPrice that accepts the array of books, the number of books, and a price. Print all of the books in the database with a price less than or equal to the price passed in. Test your function.