Assignment4

50 points

Create class named Book with member variables namely: title, author, publisher, publication date and category (fiction or nonfiction). Also, implement necessary accessor and mutator methods.

The program will read the 2D array(Array initialization is provided in the booklist.txt file) and construct array of book objects.
Next, the program will display a menu of options and allow the user to search for books which meet certain criteria. The menu options are:

1. **Display all books in a year range**: Prompt the user for two years (a starting year and an ending year), then display all books which got published between those two years (inclusive).
2. **Search for an author**: Prompt the user for a string, then display all books whose author's name contains that string (regardless of case).
3. **Display all books for a category**: Prompt the user for a string, then display all books whose category matches the user input.

Assignment Notes

1. You may use arrays or vectors to create objects.
2. Be sure to display the books in a reasonable and readable manner.
3. Optional: Create author as a char pointer and create publication date as abstract data type.
4. If no books are found for a particular search, your program will display an appropriate message
5. Your program will continue to execute until the user selects "Q" (or "q") as the menu option.