

Project 2
LibraryTestOfMap.java

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CMSC 335
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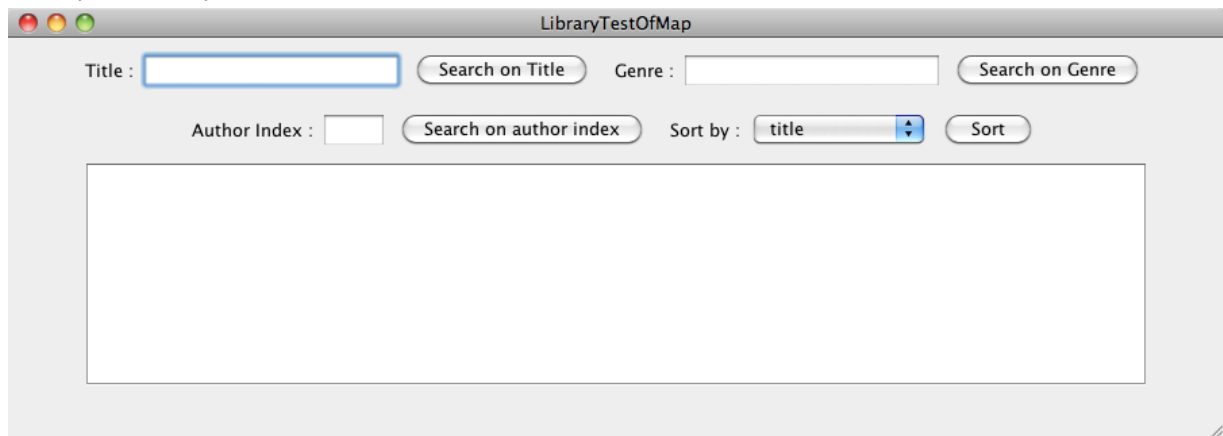
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1. Programs

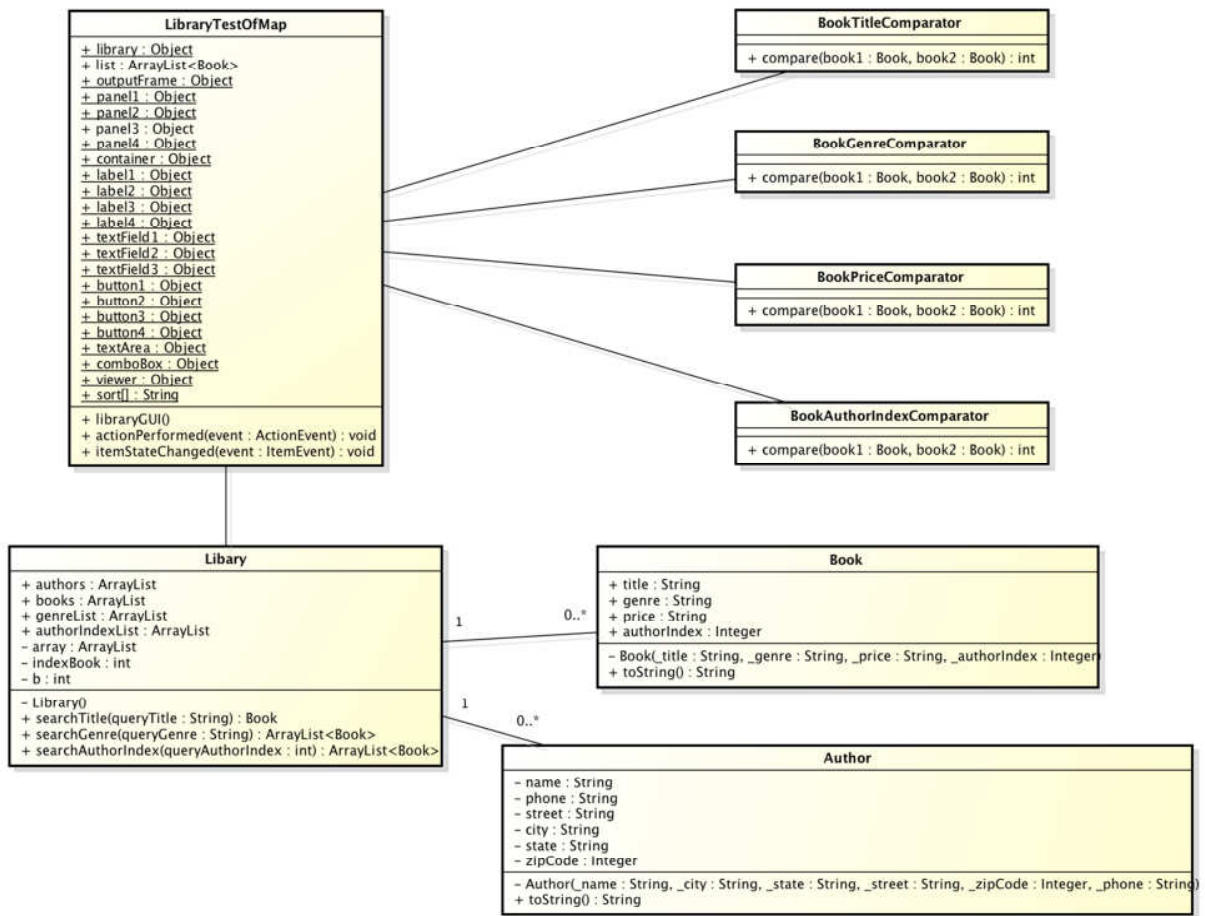
- 1.1. Author.java
- 1.2. Book.java
- 1.3. Library.java
- 1.4. LibraryTestOfMap.java
- 1.5. BookTitleComparator.java
- 1.6. BookGenreComparator.java
- 1.7. BookPriceComparator.java
- 1.8. BookAuthorIndexComparator.java

2. Execution Result

LibraryTestOfMap1



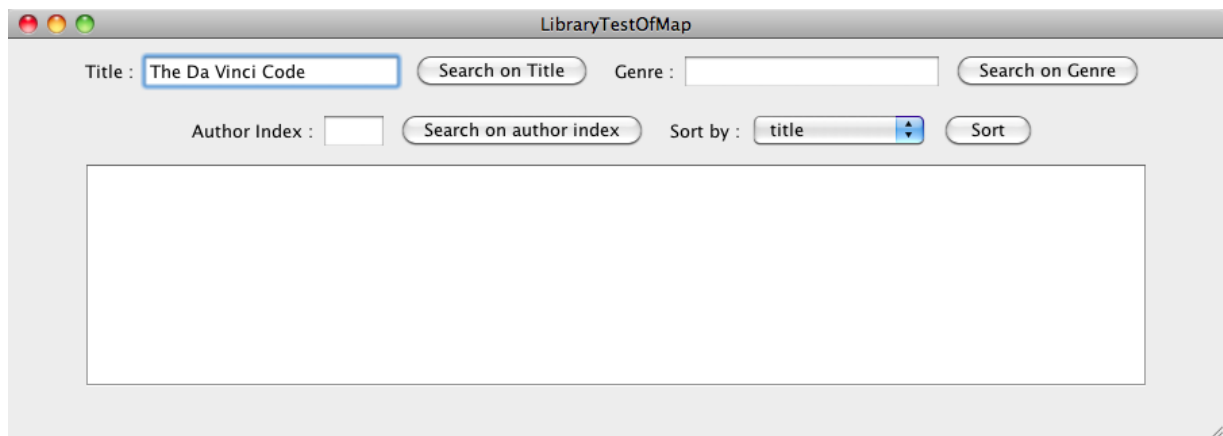
3. Class Diagram



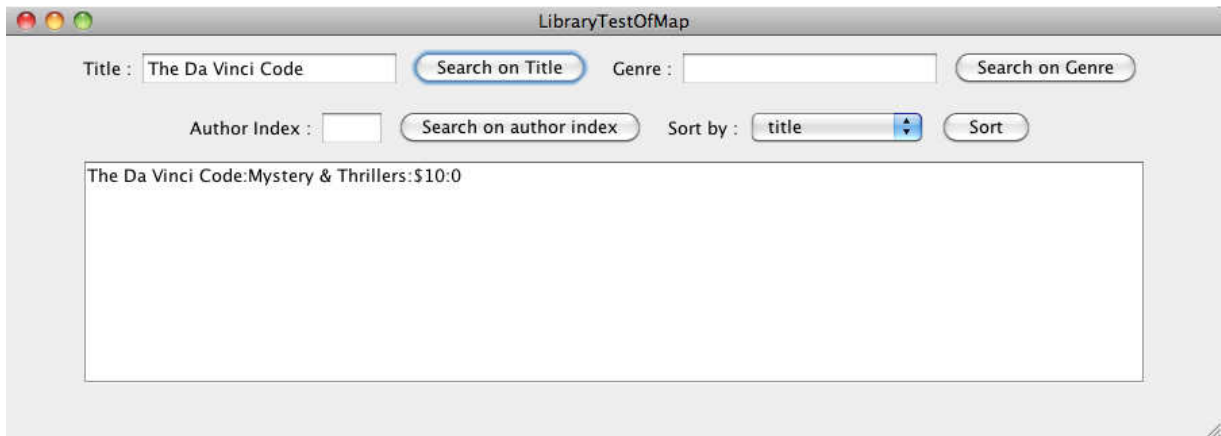
4. Operating Instructions & Test Cases

4.1. Search for a book by title

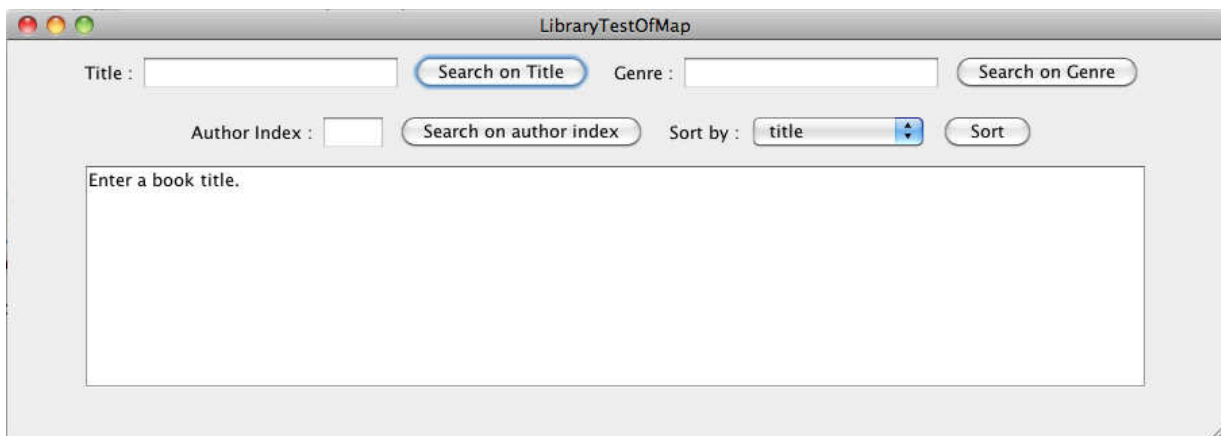
- 1) Enter a book title you want to find in the top left text field.



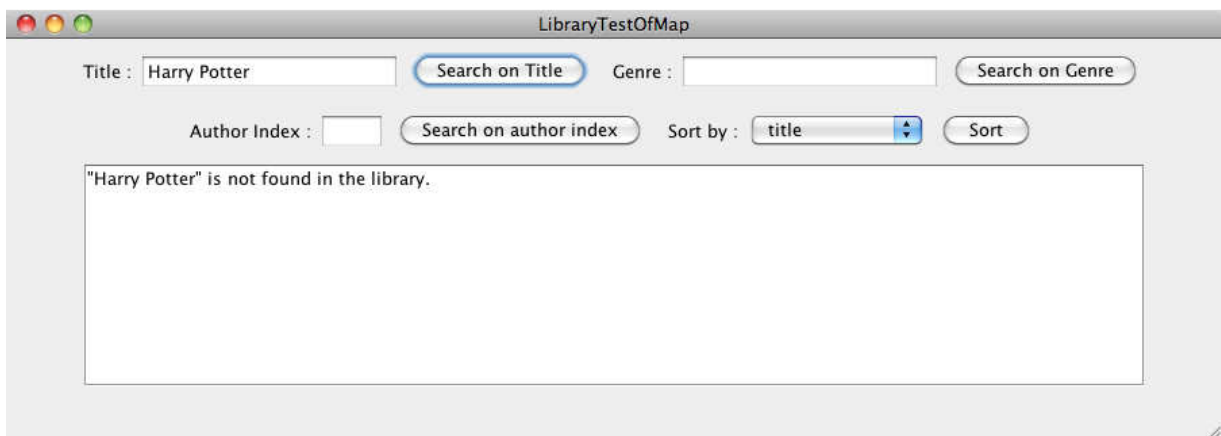
2) Click on "Search on Title" button.



3) When the book title you entered is not found in the library, you get an error message "Your search book is not found in the library." in the text area.

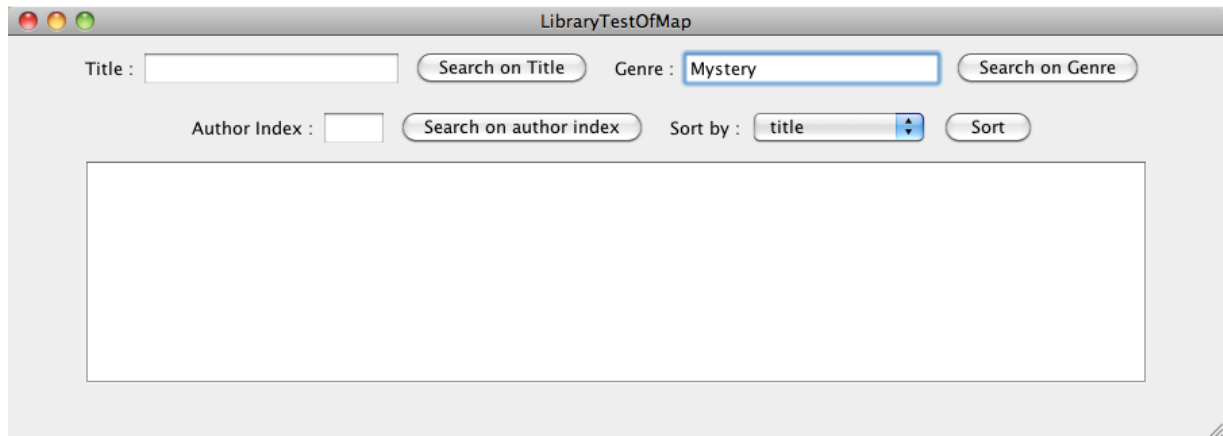


4) When you enter a null character, you get an error message "Enter a book title." in the text area.

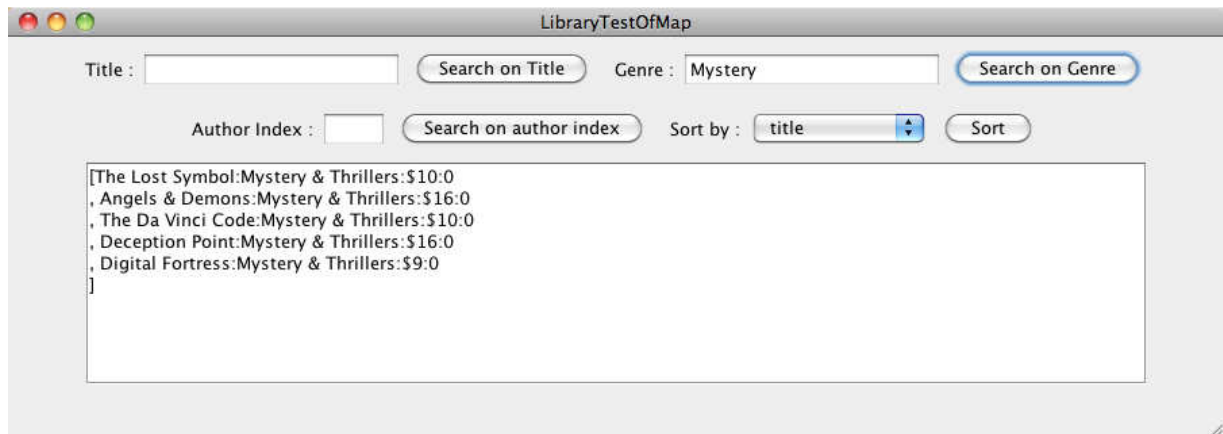


4.2. Search for books by genre

1) Enter your keywords of the book genre you want to find in the top right text field.



2) Click on "Search on Genre" button.



3) When the keyword you entered is not found in the library, you get an error message "Your search keyword is not found in the library." in the text area.

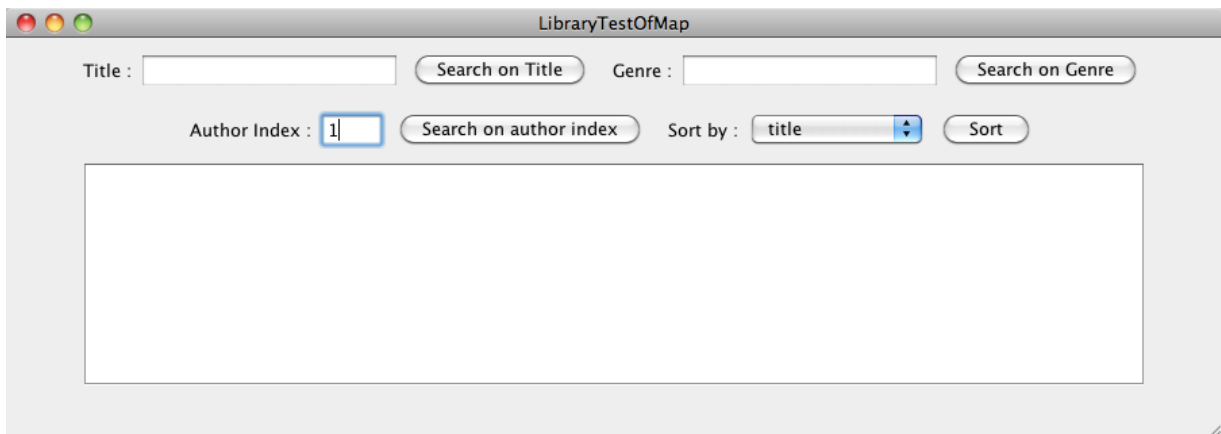


4) When you enter a null character, you get an error message "Enter a book title." in the text area.

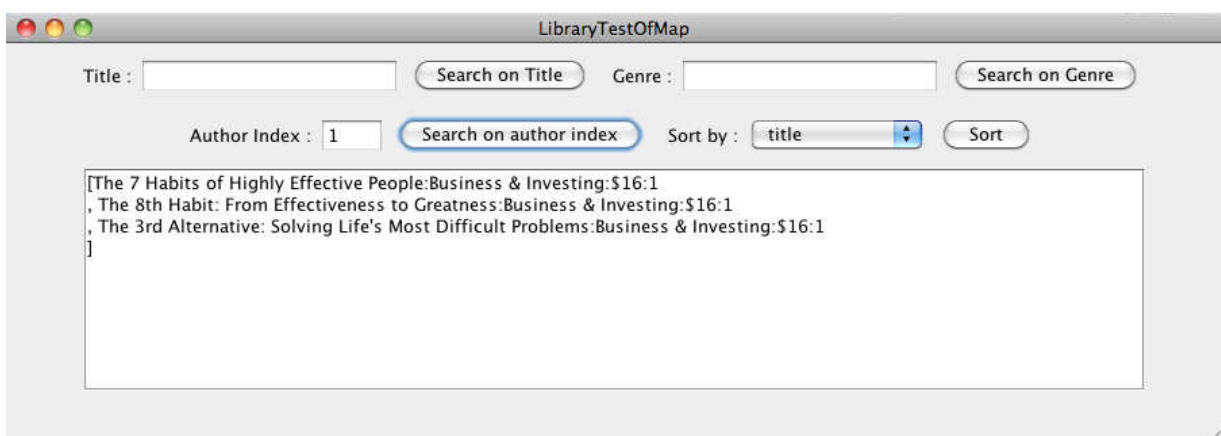


4.3. Search for books by author index

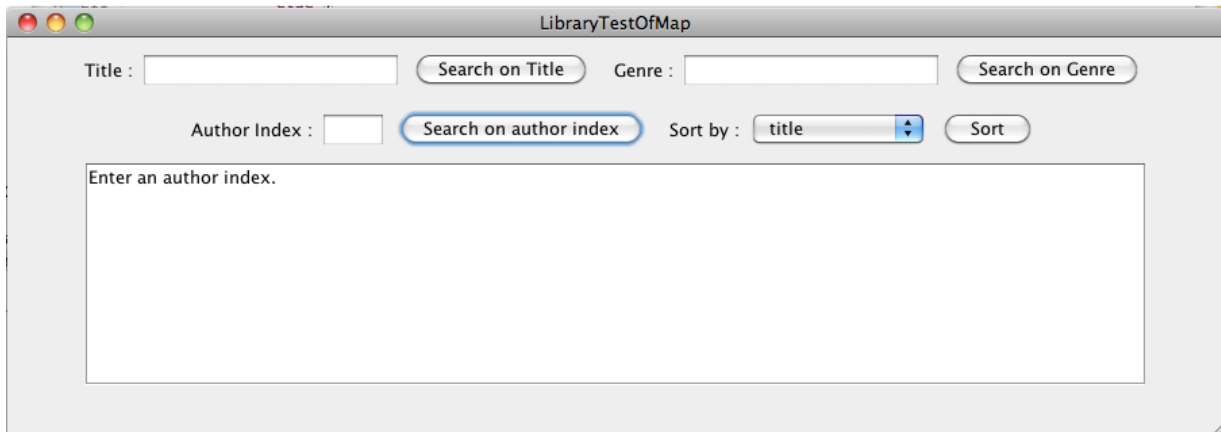
- 1) Enter the number of the author index you want to find in the left text field in the second row.



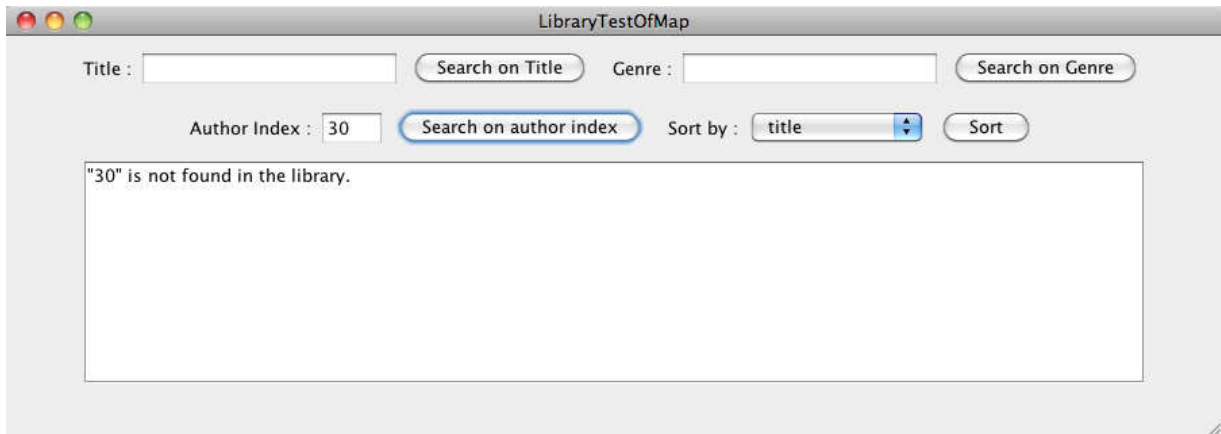
- 2) Click on "Search on author index" button.



- 3) When the number you entered is not found in the library, you get an error message "Your search number is not found in the library." in the text area.

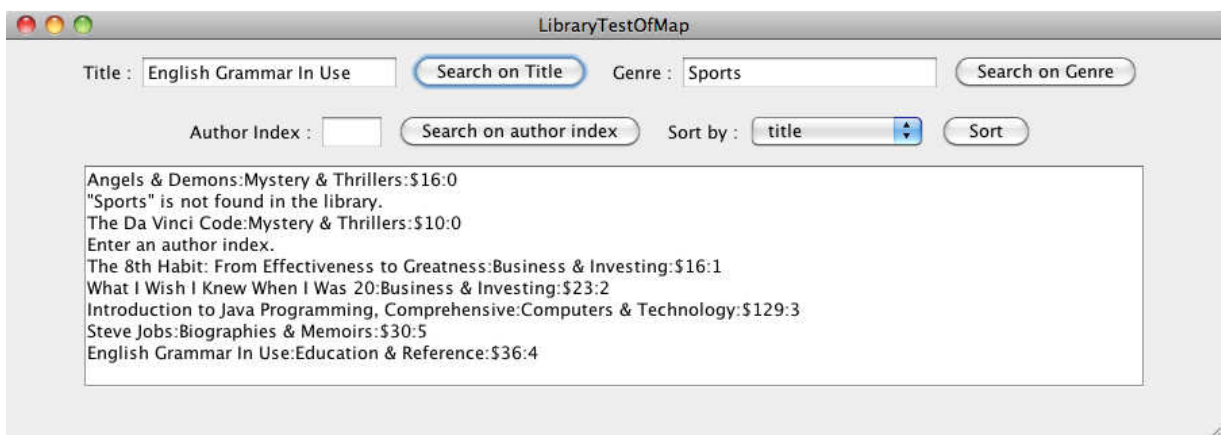


4) When you enter a null character, you get an error message "Enter an author index." in the text area.

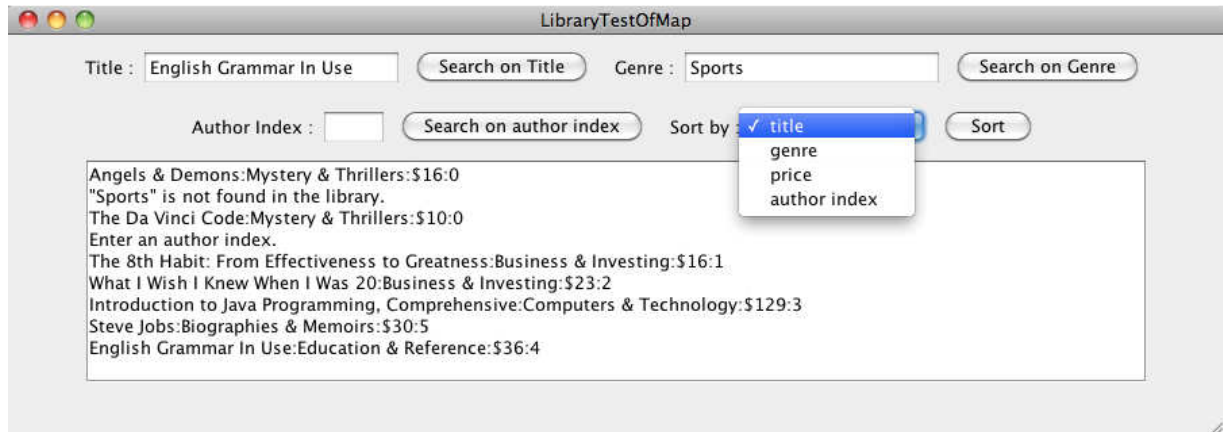


4.4. Sort by title

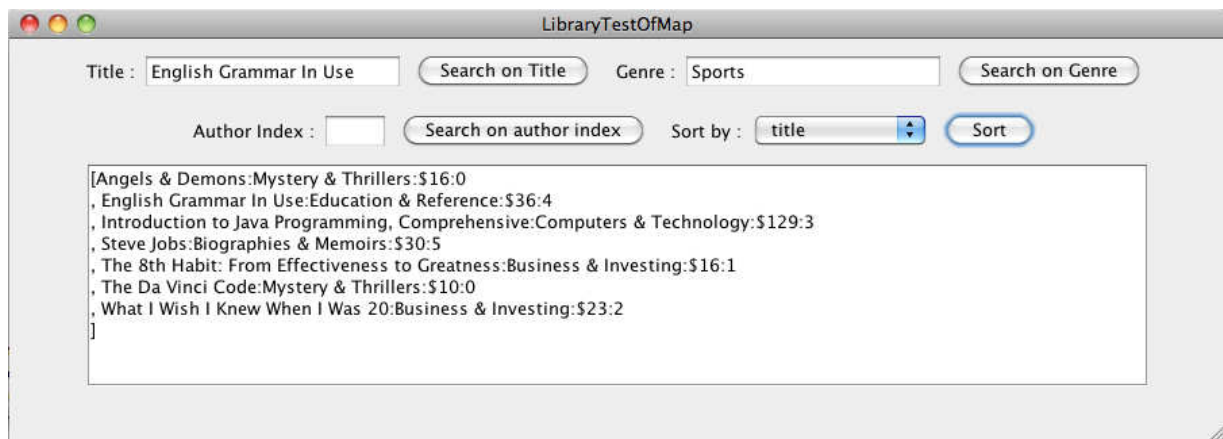
1) Search books.



2) Search books in any way you want.

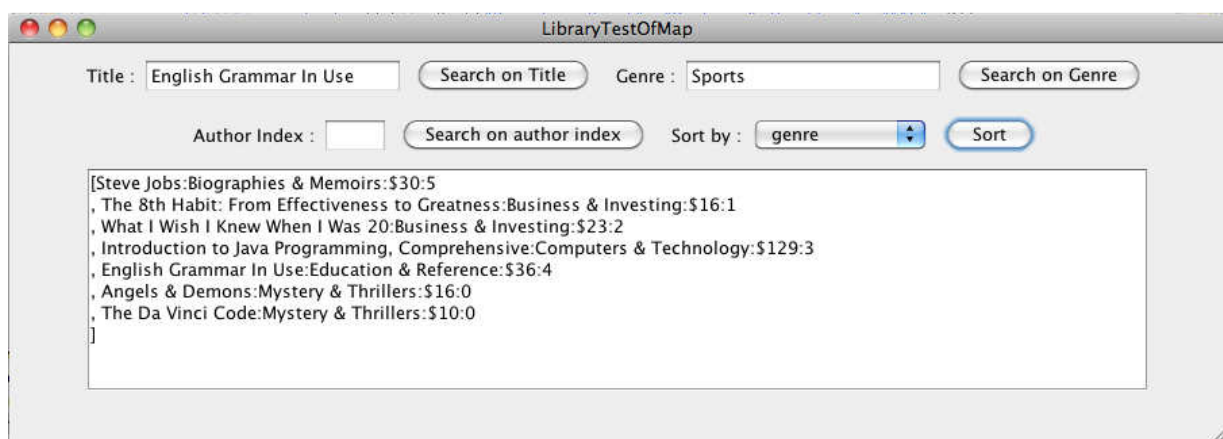


3) Select "title" from the drop-down menu. Then, click on "Sort" button.



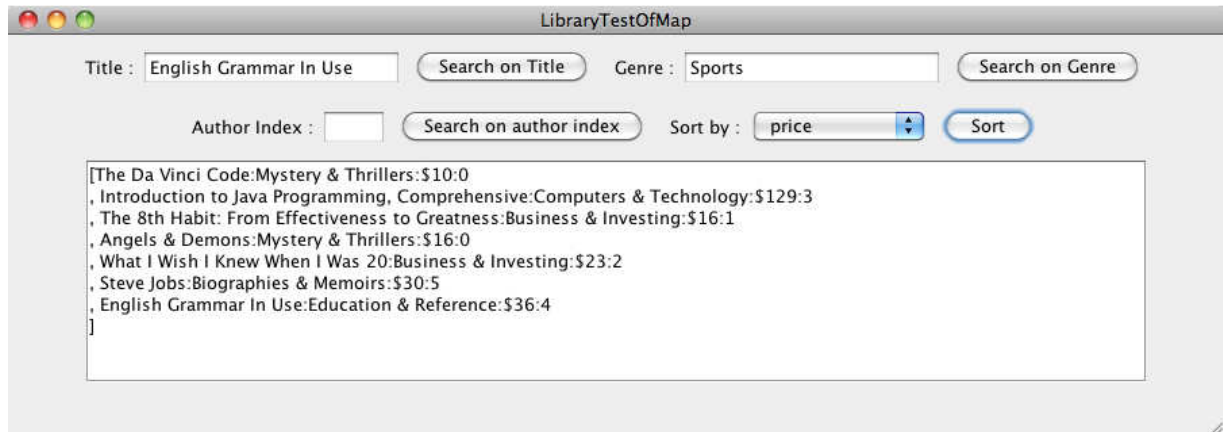
4.5. Sort by genre

1) After you search books, select "genre" from the drop-down menu. Then, click on "Sort" button.



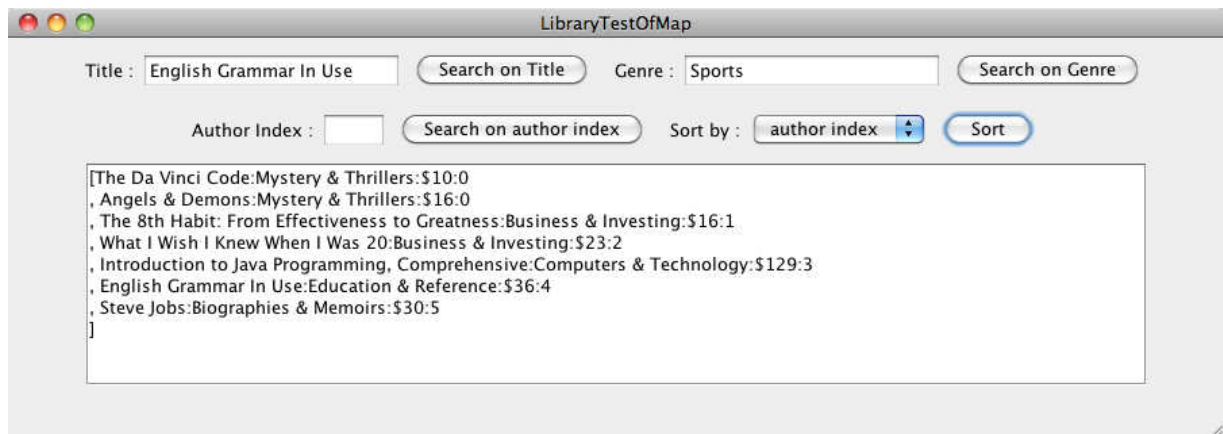
4.6. Sort by price

1) After you search books, select "price" from the drop-down menu. Then, click on "Sort" button.



4.7. Sort by author index

- 1) After you search books, select "author index" from the drop-down menu. Then, click on "Sort" button.



5. Test Data

5.1. Author Table

index	name	street address	city	state	zip	phone
0	Dan Brown	123 Street	Concord	New Hampshire	3301	603-123-456
1	Stephen R. Covey	456 Street	Salt Lake City	Utah	84101	385-456-7890
2	Tina Seelig	450 Serra Mall	Stanford	California	94305	650-725-1627
3	Y. Daniel Liang	11935 Abercorn Street	Savannah	Georgia	314191997	912-344-3264
4	Ray Murphy	University Road	Galway	County Galway, Ireland	904018	353-91-493081
5	Walter Isaacson	789 Street	New Orleans	Louisiana	70112	504-789-0123

5.2. Book Table

index	Title	Genre	price	auth of index
0	The Lost Symbol	Mystery & Thrillers	\$10	0
1	Angels & Demons	Mystery & Thrillers	\$16	0
2	The Da Vinci Code	Mystery & Thrillers	\$10	0
3	Deception Point	Mystery & Thrillers	\$16	0
4	Digital Fortress	Mystery & Thrillers	\$9	0
5	The 7 Habits of Highly Effective People	Business & Investing	\$16	1
6	The 8th Habit: From Effectiveness to Greatness	Business & Investing	\$16	1
7	The 3rd Alternative: Solving Life's Most Difficult Problems	Business & Investing	\$16	1
8	What I Wish I Knew When I Was 20	Business & Investing	\$23	2
9	Introduction to Java Programming, Comprehensive	Computers & Technology	\$129	3
10	English Grammar In Use	Education & Reference	\$36	4
11	Steve Jobs	Biographies & Memoirs	\$30	5