

Answer Sheet for Lab Exercise 2

Sorting and Searching Lists

CS 2334, Spring 2017

Due by: Friday, 10 February 2017, 4:00 pm CST

This lab is an individual exercise. Students must complete this assignment on their own.

1 – 2. [Nothing to add to answer sheet.]

3. Place the UML diagram for the **Book** class here.

Book implements Comparable <Book>

```
-title: String
-authorName: String
-year: int
-genres: ArrayList<String>
```

```
+Book()
+Book(title : String, authorName : String, year : int,
genre : String)
+Book(title : String, authorName : String, year : int,
genre : ArrayList<String>)
+ToString() String
+equals(o : object) boolean
+compareTo(book : Book) int
```

4. What is an appropriate type for an **ArrayList** of book genres?

<String>

5. What is an appropriate type for an **ArrayList** of books?

<Book>

6. What would be a good way of determining whether one book should be listed before or after another book? (Describe your method in English.)

Compare the titles of the book alphabetically, then compare authorName by alphabetically, then compare year numerically.

7. [Nothing to add to answer sheet.]

8. Why are getters and setters not required for the **Book** class as used in this lab?

The constructor sets all fields and there is no need for certain information, only to print out.

9 – 13. [Nothing to add to answer sheet.]