Library Book Management System

Section: B1+B2   Time: 40 minutes

Implement a basic Library Book Management System in Java. The system will store details about multiple books, including information on authors and availability. The program will allow the user to search for books by title, view book details, and check availability status. The number of books to store is supplied as a command line argument.

Requirements:

1. **Classes to Implement**:
   ○ Book
   ○ Library
   ○ Main
2. **Book Input**: Input details for each book, including title, author, ISBN, total copies, and borrowed copies. If two books have the same ISBN, display an error message and take the input again for that book. Also ensure that the number of borrowed copies does not exceed the number of total copies.
3. **Availability Calculation**: Calculate the number of available copies for each book based on the total copies minus the borrowed copies.
4. **Search Function**: Allow the user to search for books by title.
5. **Display Results**: Display the details of each book and its availability status (available or all copies borrowed).

Sample I/O: https://pastebin.com/bWGfHbQG

Notes:

● Store each book's information in an array within the Library class.
● Use the Library class to manage searching and displaying book details.
● Use appropriate getters and setters to access and modify class fields.

Submission Instructions:

Create a folder named with your student ID and include only the .java files. Zip the folder and submit it as follows:

```
2305010/
├── Book.java
├── Library.java
└── Main.java
```
Submit the file as 2305010.zip.