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```
package library;
public class Book implements Issueable {
  private String Bookld;
  private String BookTitle;
  private String BookAuthor;
  private boolean Isissued;
  public Book(String BookId, String BookTitle, String BookAuthor) {
    this.BookId = BookId;
    this.BookTitle = BookTitle;
this.BookAuthor = BookAuthor;
    this.Isissued = false;
  }
  public String getBookId() {
    return Bookld;
  }
  public String BookTitle() {
    return BookTitle;
  }
public String BookAuthor() {
    return BookAuthor;
  }
  @Override
```

```
public boolean issue() {
    if (!Isissued) {
      Isissued = true;
      return true;
    return false;
  }
  @Override
  public boolean returnItem() {
    if (Isissued) {
      Isissued = false;
return true;
    }
    return false;
  }
  @Override
  public boolean isAvailable() {
    return !Isissued;
  }
  @Override
public String toString() {
    return "Book{" +
        "isbn="" + BookId + '\" +
        ", title="" + BookTitle + '\" +
", author="" + BookAuthor + ""+
```

```
", issued=" + Isissued +
'}';
}
package library;
public interface Issueable {
  boolean issue();
  boolean returnItem();
  boolean isAvailable();
}
package library;
import java.util.ArrayList;
import java.util.List;
public class Systems {
  private List libbooks;
  public Systems() {
    libbooks = new ArrayList<>();
  }
  public void addBook(Book book) {
    libbooks.add(book);
  }
  public Book findBookbyId (String BookId) {
```

```
for (Book book : libbooks) {
    if (book.getBookId().equals(BookId)) {
      return book;
    }
  }
  return null;
}
public boolean issueableBook(String BookId) {
  Book book = findBookbyId(BookId);
  if (book != null) {
    return book.issue();
  }
  return false;
}
public boolean returnBook(String BookId) {
  Book book = findBookbyId(BookId);
  if (book != null) {
    return book.returnItem();
  }
  return false;
}
public boolean checkAvailable(String BookId) {
  Book book = findBookbyId(BookId);
  if (book != null) {
    return book.isAvailable();
```

```
}
    return false;
  }
  public void displayAllBooks() {
    for (Book book : libbooks) {
      System.out.println(book);
    }
  }
}
package library;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;
public class LibraryTest {
  private Book book;
  @BeforeEach
  public void setUp() {
    book = new Book("201", "Data Structures", "Robert Lafore");
  }
  @Test
  public void testInitialAvailability() {
    assertTrue(book.isAvailable(), "Book should be available when first created");
```

```
}
@Test
public void testIssueBook() {
  assertTrue(book.issue(), "First issue should succeed");
  assertFalse(book.issue(), "Second issue should fail since already issued");
}
@Test
public void testReturnBook() {
  book.issue(); // first issue
  assertTrue(book.returnItem(), "Return should succeed after issue");
  assertFalse(book.returnItem(), "Second return should fail since already returned");
}
@Test
public void testBookDetails() {
  assertEquals("201", book.getBookId());
  assertEquals("Data Structures", book.BookTitle());
  assertEquals("Robert Lafore", book.BookAuthor());
}
@Test
public void testToStringFormat() {
  String output = book.toString();
  assertTrue(output.contains("201"));
  assertTrue(output.contains("Data Structures"));
  assertTrue(output.contains("Robert Lafore"));
```

