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```
package library;
public interface Issuable {
  boolean issue();
  boolean returnBook();
  boolean isAvailable();
}
package library;
public class Book implements Issuable {
  private String title;
  private String author;
  private String isbn;
  private boolean issued;
  public Book(String title, String author, String isbn) {
     this.title = title;
     this.author = author;
     this.isbn = isbn;
     this.issued = false;
  }
  public String getTitle() {
     return title;
  }
  public String getAuthor() {
```

```
return author;
}
public String getIsbn() {
  return isbn;
}
@Override
public boolean issue() {
  if (!issued) {
     issued = true;
     return true;
  return false;
}
@Override
public boolean returnBook() {
  if (issued) {
     issued = false;
     return true;
  }
  return false;
}
@Override
public boolean isAvailable() {
```

```
return !issued;
  }
package library;
import java.util.ArrayList;
import java.util.List;
public class Library {
  private List<Book> books;
  public Library() {
     books = new ArrayList<>();
  }
  public void addBook(Book book) {
     books.add(book);
  }
  public Book findBookBylsbn(String isbn) {
     for (Book book : books) {
       if (book.getIsbn().equals(isbn)) {
          return book;
       }
     return null;
  }
```

```
public boolean issueBook(String isbn) {
     Book book = findBookBylsbn(isbn);
     if (book != null) {
       return book.issue();
     }
     return false;
  }
  public boolean returnBook(String isbn) {
     Book book = findBookBylsbn(isbn);
     if (book != null) {
       return book.returnBook();
     }
     return false;
  }
  public boolean isAvailable(String isbn) {
     Book book = findBookBylsbn(isbn);
     return book != null && book.isAvailable();
  }
package library;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
```

```
public class LibraryTest {
  private Library library;
  private Book book1;
  @Before
  public void setUp() {
    library = new Library();
    book1 = new Book("The Silent Patient", "Alex Michaelides", "67890");
    library.addBook(book1);
  }
  @Test
  public void testIssueBook() {
    assertTrue(library.issueBook("67890"));
    assertFalse(library.isAvailable("67890"));
  }
  @Test
  public void testReturnBook() {
    library.issueBook("67890");
    assertTrue(library.returnBook("67890"));
    assertTrue(library.isAvailable("67890"));
  }
  @Test
```

```
public void testIsAvailable() {
     assertTrue(library.isAvailable("67890"));
  }
}
```