

```
this.borrowingHistory = new ArrayList<>();
                                                                                     John Doe borrowed The Great Gatsby
                                                                                     John Doe returned The Great Gatsby
30
32 - class Library (
       List(Book) books;
       List (Patron) patrons;
       void borrowBook(Patron patron, Book book) {
           if (book.available) (
               book.available = false;
40
               patron.borrowingHistory.add(book);
               System.out.println(patron.name + " borrowed " + book.title);
42
           else (
43
               System.out.println("Book not available for borrowing.");
44
46
47
48
       void returnBook(Patron patron, Book book) (
              (patron.borrowingHistory.contains(book)) {
49 -
               book.available = true;
               patron.borrowingHistory.remove(book);
               System.out.println(patron.name + " returned " + book.title);
           } else {
54
               System.out.println(patron.name + " did not borrow " + book.title
```

```
John Doe borrowed The Great Gatsby
                                                                                    John Doe returned The Great Gatsby
59 public class LibraryManagementSystem {
       public static void main(String[] args) {
61
           Library library = new Library();
           Book book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald",
64
               "Fiction");
           Book book2 = new Book("To Kill a Mockingbird", "Harper Lee",
               "Classic");
67
           Patron patron1 = new Patron("John Doe", "john@example.com");
68
69
           library.books = new ArrayList⇔();
           library.patrons = new ArrayList⇔();
           library.books.add(book1);
           library.books.add(book2);
           library.patrons.add(patron1);
           library.borrowBook(patron1, book1);
           library.returnBook(patron1, book1);
80
```