

Tests Execution Screenshots

The screenshot displays the IntelliJ IDEA IDE interface during the execution of a Java application. The top toolbar shows the 'Run' button (a green play icon) and other standard IDE controls. Below the toolbar, the 'Run' configuration is set to 'Main'. The main editor window shows the output of the application, which is a 'Library Management System' menu. The menu options are:

- 1. Add Book
- 2. Edit Book
- 3. Delete Book
- 4. Search Book by Title
- 5. Search Book by Category
- 6. Show All Available Books
- 7. Register Member
- 8. Delete Member
- 9. Search Member by Name
- 10. Record Loan
- 11. Manage Return
- 12. Calculate Penalties
- 13. Exit

The user has selected option 6, 'Show All Available Books'. The application then displays a list of books and their available copies:

- The Great Gatsby by F. Scott Fitzgerald (Classic) - Copies: 12
- To Kill a Mockingbird by Harper Lee (Classic) - Copies: 15
- 1984 by George Orwell (Dystopian) - Copies: 10
- The Catcher in the Rye by J.D. Salinger (Classic) - Copies: 7
- The Hobbit by J.R.R. Tolkien (Fantasy) - Copies: 10
- Moby Dick by Herman Melville (Adventure) - Copies: 5
- The Lord of the Rings by J.R.R. Tolkien (Fantasy) - Copies: 9
- Jane Eyre by Charlotte Bronte (Romance) - Copies: 12
- Animal Farm by George Orwell (Political Satire) - Copies: 13
- War and Peace by Leo Tolstoy (Historical) - Copies: 6
- The Odyssey by Homer (Epic) - Copies: 11
- Ulysses by James Joyce (Modernist) - Copies: 8
- The Divine Comedy by Dante Alighieri (Epic) - Copies: 7
- Brave New World by Aldous Huxley (Dystopian) - Copies: 14
- Les Misérables by Victor Hugo (Historical) - Copies: 10
- Crime and Punishment by Fyodor Dostoevsky (Psychological) - Copies: 9
- Wuthering Heights by Emily Bronte (Romance) - Copies: 8
- The Iliad by Homer (Epic) - Copies: 11

The right-hand side of the IDE shows the 'Performance' monitor. It includes a 'Start Recording' button and a progress bar indicating the recording status. The CPU usage is shown as 0%, and the Heap Memory usage is shown as 36 MB. The overall status of the application is 'Running'.

TL testLibraryVersion control

Current File

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Project

Main.javaPerson.javaMember.javaLoan.javaBook.java

db.propertiesDatabaseConfig.javaDB.javaBookDAO.javaLoanDAO.javaMemberI

RunMain

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The Iliad by Homer (Epic) - Copies: 11

The Brothers Karamazov by Fyodor Dostoevsky (Philosophical) - Copies: 5

Anna Karenina by Leo Tolstoy (Romance) - Copies: 12

The Metamorphosis by Franz Kafka (Absurdist) - Copies: 7

One Hundred Years of Solitude by Gabriel Garcia Marquez (Magic Realism) - Copies: 9

Don Quixote by Miguel de Cervantes (Adventure) - Copies: 14

The Trial by Franz Kafka (Absurdist) - Copies: 8

The Picture of Dorian Gray by Oscar Wilde (Philosophical) - Copies: 11

Catch-22 by Joseph Heller (Satire) - Copies: 10

Great Expectations by Charles Dickens (Bildungsroman) - Copies: 7

The Grapes of Wrath by John Steinbeck (Historical) - Copies: 8

The Old Man and the Sea by Ernest Hemingway (Literary) - Copies: 6

pop by ash (oil) - Copies: 2

Library Management System

1. Add Book

2. Edit Book

3. Delete Book

4. Search Book by Title

5. Search Book by Category

6. Show All Available Books

7. Register Member

8. Delete Member

9. Search Member by Name

10. Record Loan

11. Manage Return

12. Calculate Penalties

13. Exit

Choose an option: 1

Enter book ID: 31

Enter title: *Le Petit Prince*

Enter author: *Antoine de Saint-Exupéry*

Enter category: *Littérature jeunesse*

Enter number of copies: 9

Book added successfully.

Library Management System

Performance

Start Recording

09:04:40

0%

CPU

38 MB

Heap Memory

testLibraryVersion control

Current File

Main.javaPerson.javaMember.javaLoan.javaBook.java

db.propertiesDatabaseConfig.javaDB.javaBookDAO.javaLoanDAO.javaMember.java

RunMain

Library Management System

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12. Calculate Penalties

13. Exit

Choose an option: 6

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Anna Karenina by Leo Tolstoy (Romance) - Copies: 12

The Metamorphosis by Franz Kafka (Absurdist) - Copies: 7

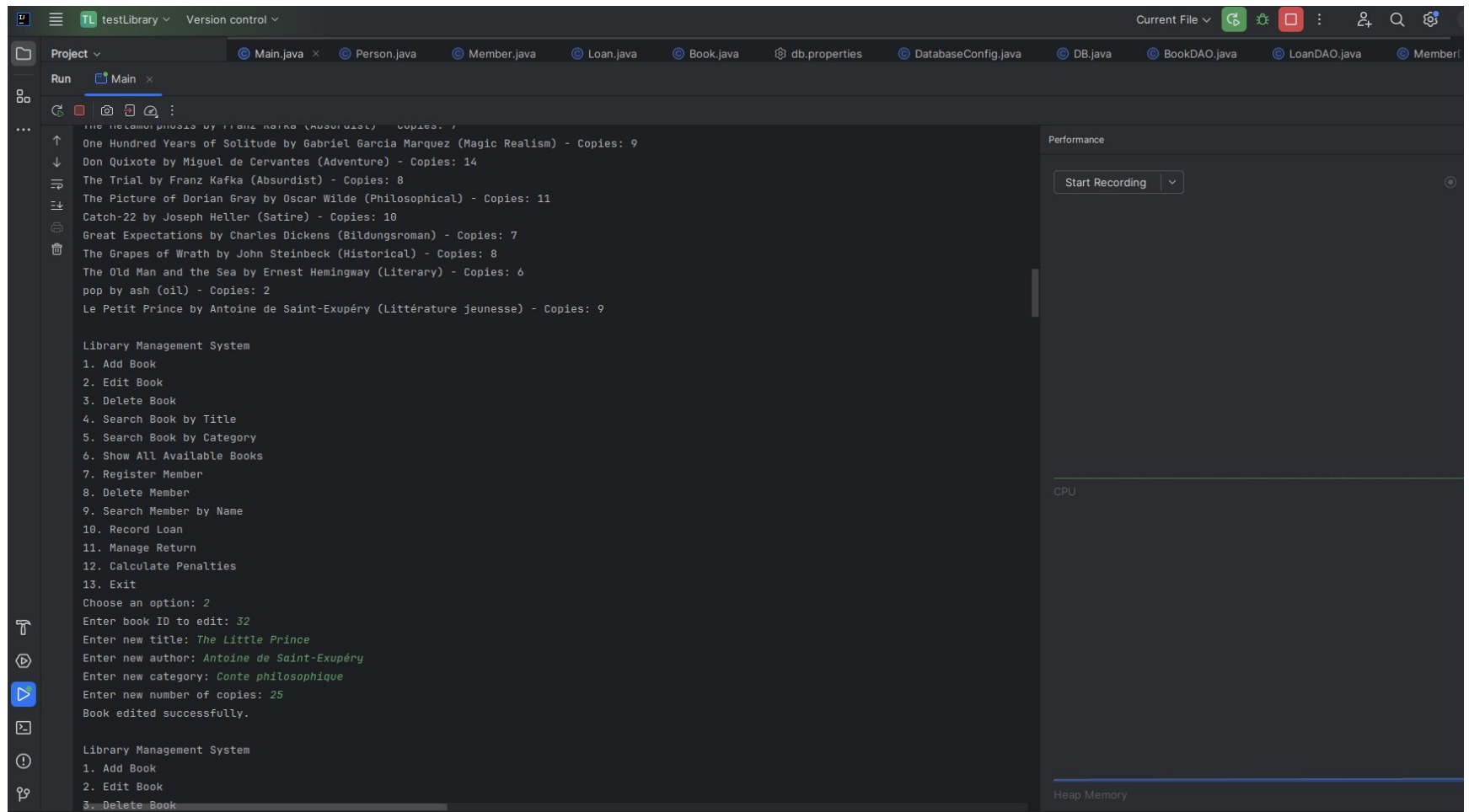
One Hundred Years of Solitude by Gabriel Garcia Marquez (Magic Realism) - Copies: 9

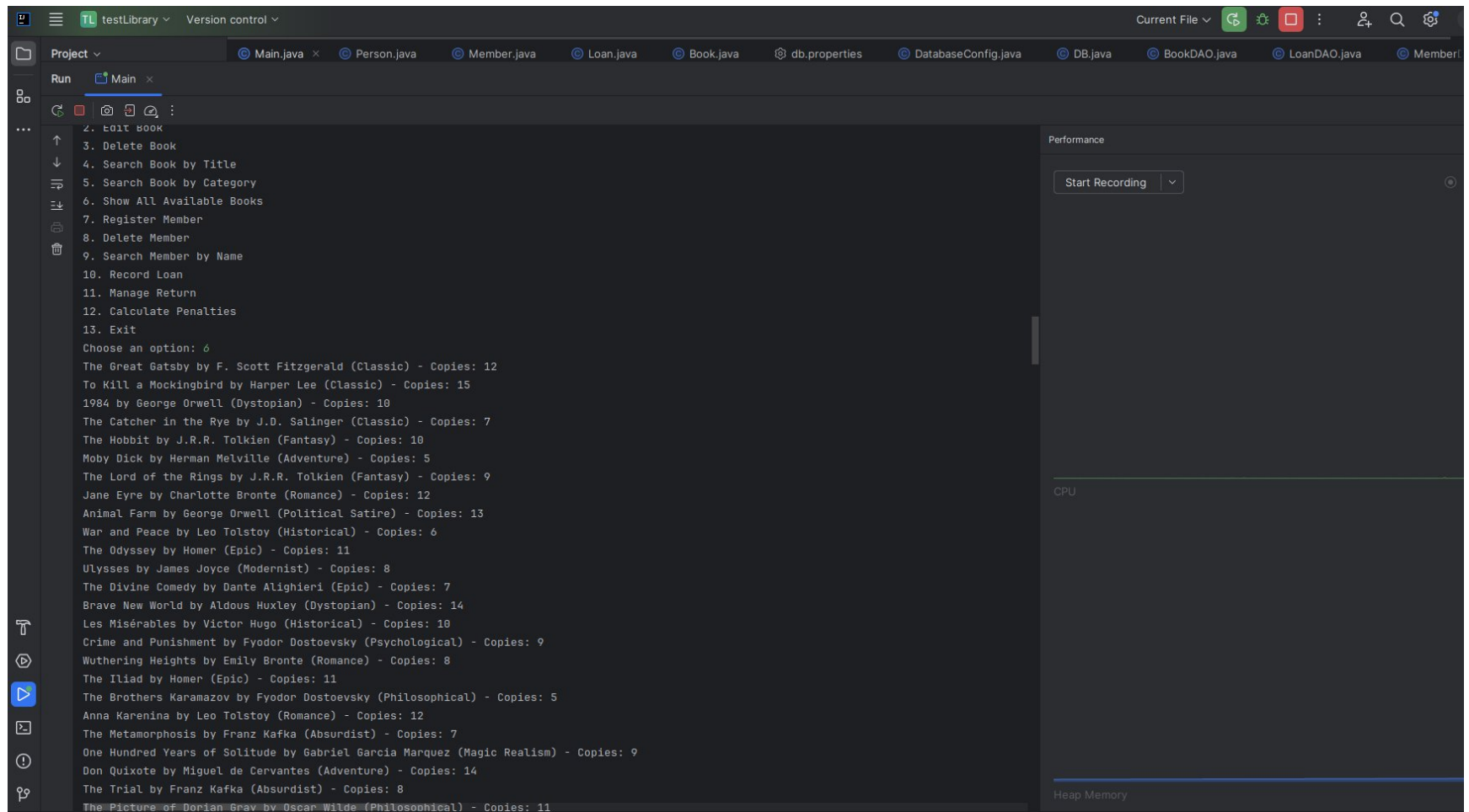
Performance

Start Recording

CPU

Heap Memory





testLibrary

Version control

Current File

Project

Main.javaPerson.javaMember.javaLoan.javaBook.java db.propertiesDatabaseConfig.javaDB.javaBookDAO.javaLoanDAO.javaMemberI

Run

Main

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The Old Man and the Sea by Ernest Hemingway (Literary) - Copies: 6

pop by ash (oil) - Copies: 2

The Little Prince by Antoine de Saint-Exupéry (Conte philosophique) - Copies: 25

Library Management System

1. Add Book

2. Edit Book

3. Delete Book

4. Search Book by Title

5. Search Book by Category

6. Show All Available Books

7. Register Member

8. Delete Member

9. Search Member by Name

10. Record Loan

11. Manage Return

12. Calculate Penalties

13. Exit

Choose an option: 3

Enter book ID to delete: 31

Book and related loans deleted successfully.

Book deleted successfully.

Library Management System

1. Add Book

2. Edit Book

3. Delete Book

4. Search Book by Title

5. Search Book by Category

6. Show All Available Books

7. Register Member

8. Delete Member

9. Search Member by Name

Performance

Start Recording

CPU

Heap Memory

TL testLibraryVersion control

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RunMain

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9. Search Member by Name

10. Record Loan

11. Manage Return

12. Calculate Penalties

13. Exit

Choose an option: 6

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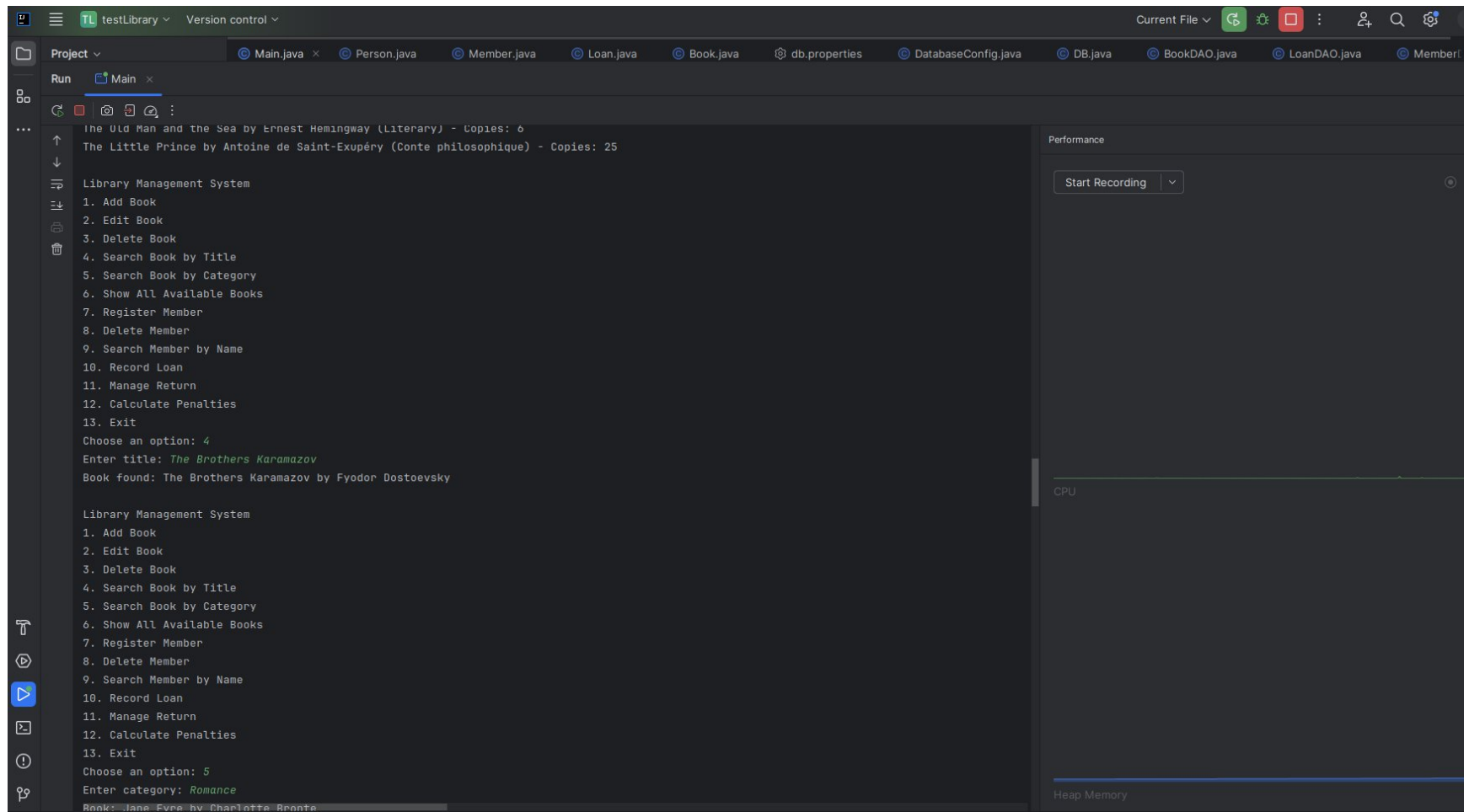
The Little Prince by Antoine de Saint-Exupéry (Conte philosophique) - Copies: 25

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CPU

Heap Memory



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Current File

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RunMain

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Book: Jane Eyre by Charlotte Bronte

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Book: Wuthering Heights by Emily Bronte

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Book: Anna Karenina by Leo Tolstoy

Library Management System

1. Add Book

2. Edit Book

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8. Delete Member

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10. Record Loan

11. Manage Return

12. Calculate Penalties

13. Exit

Choose an option: 7

Enter member ID: 31

Enter first name: Cygrielle

Enter last name: Noa

Enter email: cyriellenoa@gmail.com

Enter membership date (yyyy-mm-dd): 2023-03-30

Member registered successfully.

Library Management System

1. Add Book

2. Edit Book

3. Delete Book

4. Search Book by Title

5. Search Book by Category

6. Show All Available Books

7. Register Member

8. Delete Member

9. Search Member by Name

10. Record Loan

Performance

Start Recording

CPU

Heap Memory

