# A4 BUG2 REPORT

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# Assignment details: Debugging task

# **Bug 2 Report:**

## Bug 2: Loan Limit is being exceeded.

When an Patron borrows items, the loan limit is supposed to be enforced after 2 items, but instead it is being enforced after 3 items. When Patron returns again later, they are able to borrow yet another item before the loan limit is enforced again. They can do this over and over until the library runs out of books.

Step 1:

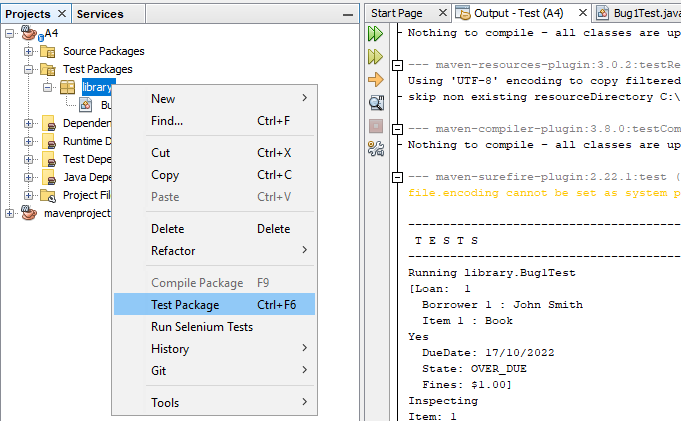
Step 2:

# **Bug 1 Replication:**

**System Test:** The steps to manually reproduce the error are in **Bug2SystemTest.docx**.

**Automated Test:** Test case has been written to replicate this bug quickly. It can be run by opening the project, found in this directory: **A4\src\test\java\library.Bug2Test.java**

The test can be run by opening the project, right-click the library test package and click “Test Package”:



**A screenshot of the test code:**

A screenshot of the test being run and failing as expected before the fix:

Version control: Screenshot of commit for the test code:

# **Bug 2 Tracing:**

# **Conclusion of bug tracing:**

**There are 2 problems –**

Resolution

**Fix details:**

**Fix deployed - Github commit screenshot:**

**Results after fix deployment:**

**Test case which was failing before is now passing:**

**Running the System Test also passes:**