# Sample Solution Template for A4

# Name:

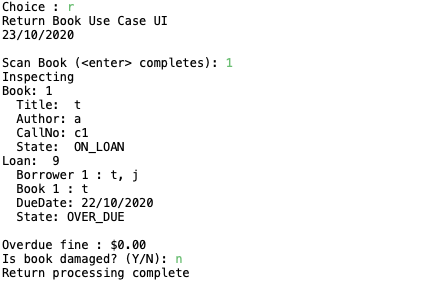
# Student ID:

# Assignment details:

# A4 Bug Report

## Bug 1: Incorrect calculation of fines.

When a book becomes overdue by one day, no fine is imposed.



Bug 1 Solution

Replication:

# Scenario 1: Calculate Fine

## Scenario Description

* Describe the intent of the test scenario
* Test scenarios (aka test set or test suite) are a set of test scripts that cover a specific functional area, business process, use case, etc…
* For example, a given test scenario might cover an order placed on a web site by an existing customer (another scenario might cover orders placed by new customers) – test scripts within the scenario might cover a single item order, a multiple items order, quantity not on hand exception, etc…

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 0.1 | 01/01/2006 | Author Name | Initial Draft |
| 1.0 | 01/10/2006 | Author Name | Initial Version |

## Test Scripts

The following scripts will cover this scenario:

* 1.1 Overdue Loan Case
* 1.2 Test Script Name
* 1.3 Test Script Name

## Use Case

* List the Use Case covered by this Test Scenario – limit the test scenario to just one Use Case

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* Component 1
* Component 2
* Functional Requirements Group 1

## User Groups

* User group/responsibility 1
* User group/responsibility 2

## Script 1: Overdue Loan Case

### Script Description

* Overdue fine is calculated correctly

### Testing Requirements

This test script covers the following specific testing requirements:

* A member cannot borrow when they have an overdue loan.

### Setup

* Member has an overdue loan
* The book returned after the due date

### Teardown

* List all steps that should be taken after the test case is executed

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | The patron chooses the option r | Calculate 1 day fine | Pass/fail |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |

### Test Data

|  |  |
| --- | --- |
| Step | Data |
| 1 | Member Id: 1 |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 2/12/06 11:35 am | Joseph Jones | Samsmith1 | System Cycle 1 | Failed |
| 2/16/06 3:45 pm | Joseph Jones | Samsmith1 | System Cycle 2 | Passed |

Step 1 Result: Pass

<screenshots>

**Description of the screenshots**

Version control: Provide screenshots of commits

**Description of the screenshots**

**Simplification**

**H0:**

**T0:**

**R0:**

**Test screenshots of the buggy code**

Version control: Provide screenshots of commits

**Tracing**

**H0:**

**T0:**

**R0:**

**Test screenshots of the buggy code**

Version control: Provide screenshots of commits

**Resolution**

**H0:**

**T0:**

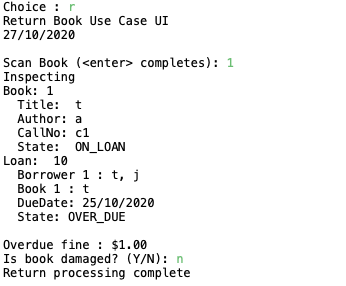
**R0:**

**Test screenshots with correct code**

Version control: Provide screenshots of commits

## Bug 2: Incorrect fine amount levied.

When a fine is incurred, the amount of fine reported is half the amount intended.



Bug 2 Solution

Replication:

# Scenario 2: Calculate Fine

## Scenario Description

* Describe the intent of the test scenario
* Test scenarios (aka test set or test suite) are a set of test scripts that cover a specific functional area, business process, use case, etc…
* For example, a given test scenario might cover an order placed on a web site by an existing customer (another scenario might cover orders placed by new customers) – test scripts within the scenario might cover a single item order, a multiple items order, quantity not on hand exception, etc…

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## Test Scripts

The following scripts will cover this scenario:

* 1.1 Overdue Loan Case
* 1.2 Test Script Name
* 1.3 Test Script Name

## Use Case

* List the Use Case covered by this Test Scenario – limit the test scenario to just one Use Case

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* Component 1
* Component 2
* Functional Requirements Group 1

## User Groups

* User group/responsibility 1
* User group/responsibility 2

## Script 2: Overdue Loan Case

### Script Description

* Overdue fine is calculated correctly

### Testing Requirements

This test script covers the following specific testing requirements:

* A member cannot borrow when they have an overdue loan.

### Setup

* Member has an overdue loan
* The book returned after the due date

### Teardown

* List all steps that should be taken after the test case is executed

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | The patron chooses the option r | Calculate 1 day fine | Pass/fail |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |

### Test Data

|  |  |
| --- | --- |
| Step | Data |
| 1 | Member Id: 1 |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 2/12/06 11:35 am | Joseph Jones | Samsmith1 | System Cycle 1 | Failed |
| 2/16/06 3:45 pm | Joseph Jones | Samsmith1 | System Cycle 2 | Passed |

Step 1 Result: Pass

<screenshots>

Version control: Provide screenshots of commits

**Simplification**

**H0:**

**T0:**

**R0:**

**Test screenshots of the buggy code**

Version control: Provide screenshots of commits

**Tracing**

**H0:**

**T0:**

**R0:**

**Test screenshots of the buggy code**

**Description of the screenshots**

Version control: Provide screenshots of commits

**Resolution**

**H0:**

**T0:**

**R0:**

**Test screenshots with correct code**

Version control: Provide screenshots of commits