

## Table of Contents

Bug 1 & 2.....	2
Description.....	2
Pre-conditions .....	2
Post-Conditions .....	2
Test Result.....	2
Screenshots .....	2
Source code .....	2
Test code .....	2
Test result.....	3

## Bug 1 & 2

### Description

Function : `getDaysDifference()` (Class-Calendar.java, Package-entities)

This function is intend to calculate difference between two dates. This is used in our program to get date difference to calculate fine. This function cause both described bugs.

### Pre-conditions

This function required to pass a date, this date will be differentiated with current date.

### Post-Conditions

This function should return date day difference between argument passed date and current date.

### Test Result

PASS

### Screenshots

#### Source code

```
62      @Override
63      public synchronized long getDaysDifference(Date targetDate) {
64          long diffMilliseconds = getDate().getTime() - targetDate.getTime();
65          long diffDays = diffMilliseconds / MILLIS_PER_DAY;
66          return diffDays;
67      }
68  }
```

#### Test code

```
11      // this function intend to give difference between two dates
12      @Test
13      public void getDaysDifference() {
14          Calendar calendar = Calendar.getInstance();
15          Date date = library.entities.Calendar.getInstance().getDate();
16
17          calendar.setTime((Date)date.clone());
18          // setting due date, two days before current date
19          calendar.add(Calendar.DATE, amount: -2);
20
21          long actualResult = library.entities.Calendar.getInstance().getDaysDifference(calendar.getTime());
22          long expectedResult = 2L;
23
24          assertEquals(expectedResult, actualResult);
25      }
```

## Test result

The screenshot shows the 'Run' window of an IDE. At the top, a tab is labeled 'CalendarTest.getDaysDifference'. Below the tab, a toolbar contains icons for running, debugging, and other actions. A status bar at the top right indicates 'Tests passed: 1 of 1 test - 47 ms'. The main area is divided into two panes. The left pane shows a tree view with 'CalendarTest (library.entities)' and 'getDaysDifference', both marked with green checkmarks and a duration of '47 ms'. The right pane shows the command 'C:\Program Files\Java\jdk-13.0.2\bin\java.exe' and the message 'Process finished with exit code 0'. At the bottom left, a green box says 'Tests passed: 1'. The bottom of the window has a tab bar with 'Run', 'Problems', 'TODO', 'Terminal', and 'Build'.

Run: CalendarTest.getDaysDifference

Tests passed: 1 of 1 test - 47 ms

CalendarTest (library.entities) 47 ms

getDaysDifference 47 ms

"C:\Program Files\Java\jdk-13.0.2\bin\java.exe" ...

Process finished with exit code 0

Tests passed: 1

Run Problems TODO Terminal Build