**Bug 01** - When a book becomes overdue by one day, no fine is imposed.

**Point of Failure**: After going through the code the reason due to the wrong value of MILLIS\_PER\_DAY variable in the Calendar class. While calculating the fine the difference between the days is return in the form of total milliseconds which is afterwards are supposed to be divided by MILLIS\_PER\_DAY and we can get the difference between days. Whereas the MILLIS\_PER\_DAY variable’s value is set to millis for two days

**H0**: Variable value is not right at line 10

**T0**: set a breakpoint at line 65 and 67, visually inspect variable balance value before output.

**Result0**: H0 true: The MILLIS\_PER\_DAY variable’s value is set to millis for two days line 10. Deduction has been done correctly. Text

Description automatically generated

Screenshot for debugging mode at breakpoint line 65

Graphical user interface, text, application

Description automatically generated

Screenshot for debugging mode at breakpoint 67

Graphical user interface, text, application

Description automatically generated

**Bug 02** - When a fine is incurred, the amount of fine reported is half the amount intended.

**Point of Failure**: After going through the code the reason due to the wrong value of MILLIS\_PER\_DAY variable in the Calendar class. While calculating the fine the difference between the days is return in the form of total milliseconds which is afterwards are supposed to be divided by MILLIS\_PER\_DAY and we can get the difference between days. Whereas the MILLIS\_PER\_DAY variable’s value is set to millis for two days

**H0**: Variable value is not right at line 10

**T0**: set a breakpoint at line 65 and 67, visually inspect variable balance value before output.

**Result0**: H0 true: The MILLIS\_PER\_DAY variable’s value is set to millis for two days line 10. Deduction has been done correctly. Text

Description automatically generated

Screenshot for debugging mode at breakpoint line 65

Graphical user interface, text, application

Description automatically generated

Screenshot for debugging mode at breakpoint 67

Text

Description automatically generated