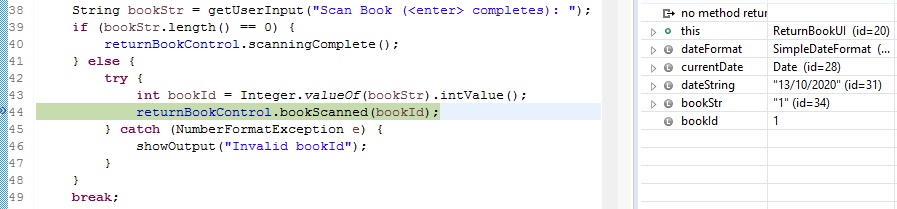
Asg4 Bug 1 Log.

H0: Problem is in UI before returnBookControl.bookscanned(barcode) is called.

T0: Check bookbarcode – barcode is not correct i.e. not equal entered ID

R0: bookbarcode == entered ID

H0 is false - problem is not in UI before returnBookControl.bookscanned(barcode)



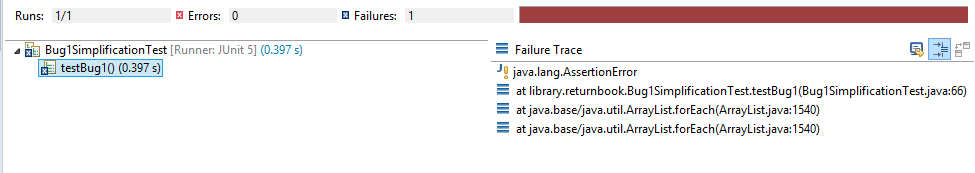
Bug1SimplicationTest written.

H1: returnBookControl.bookscanned(barcode) executed properly

T1: check whether patron has incurred a fine for one day overdue loan.

R1: Patron incurred no fines

H1 is false – problem is in returnBookControl.bookscanned(barcode)

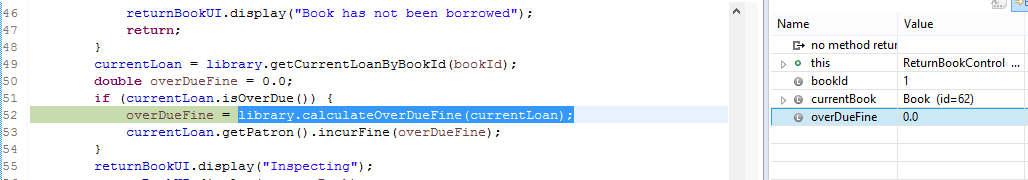


H2: problem is contained in library.calculateOverDueFine

T2: Check whether library.calculateOverDueFine returns 0.0

R2: library.calculateOverDueFine returned 0.0

H2 is True - problem is contained in library.calculateOverDueFine

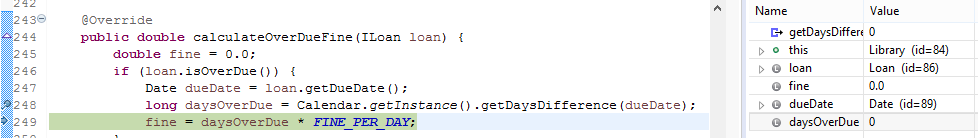


H3: problem is contained in Calendar.getInstance().**getDaysDifference**

T3: Check if daysOverdue variable is not 1

R3: daysOverdue == 0

H3 is True - problem is contained in .**getDaysDifference**



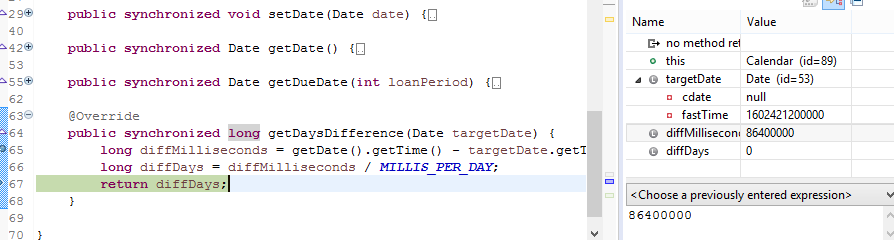
H4: problem is with calculation of **long** diffMilliseconds = getDate().getTime() - targetDate.getTime();

T4: Check if diffMilliseconds != 86400000\*

\*A day is equal to 86400000 milliseconds.

R4: diffMilliseconds == 86400000

H4 is False – problem is not contained within diffMilliseconds calculation

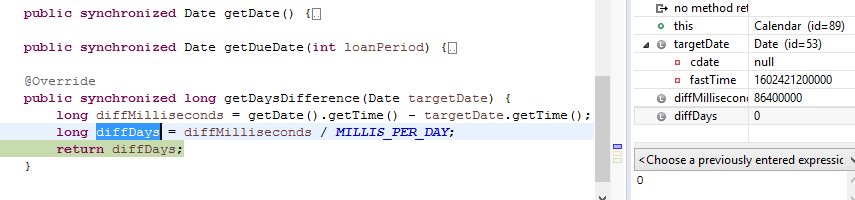


H5: problem is with diffDays calculation

T5: Check if diffDays == 0

R5: diffDays == 0

H5 is True – Problem is within diffDays calculation



/\* Bug1 origin detected ***MILLIS\_PER\_DAY*** = 172800000L;\*\*

\*\* 172800000 milliseconds = 2 days, therefore diffDays = 0

H3: Changing line 10