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A test that reveals a bug has succeeded, not failed. —Boris Beizer

**\*PLEASE PRINT ALL PARTICIPANT NAMES ON TOP OF THE PAGE\***

Class, Section \_\_\_\_\_

Total Points (Out of 100 points) \_\_\_\_\_

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**Instruction:**

1. Answer to the problem on a **PDF** file (**PDF file only**) and save it as HW#\_YOUR-NAME.PDF
  2. Submit the **PDF** file to eLearning before the due date
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Consider the given *DaysDurationCalculator.java* program, Design and develop at least 10 JUnit tests to evaluate the *cal()*.

Do **not** develop tests for the *main()* and the *getN()* methods.

Since *cal()* has a precondition that excludes almost all invalid inputs, you should focus on normal behavior. Note that “data-driven” tests could be very useful for this assignment.

- A. Create at least one possible fault that you could place into the *cal()* method that your tests **do not** find.
- B. Create at least one possible fault that you could place into the *cal()* method that your tests **do** find.

Submit the following on paper:

1. A brief write-up (about one page) that describes your test set and the faults.
  2. A printout of your JUnit tests.
  3. Screen shots showing the results of running all your tests.
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**Grading**

We will grade on several factors.

- (10 pts) Whether you have the required number of tests
- (50 pts) The overall quality of the test set
- (10 pts) The clarity of your write-up
- (20 pts) The two faults that you create
- (10 pts) Whether your tests ran