CIS 613 – Software Testing, Winter 2020 Project 1: Boundary Value Testing and JUnit 5 Due Date: Friday, January 31st, 2020

You are provided (on Blackboard) with the following Java source files:

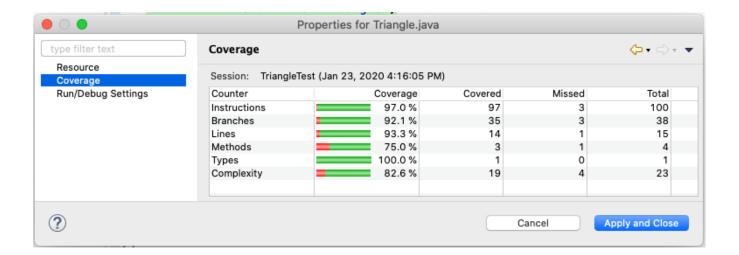
- Date.java
- Triangle.java
- InvalidValueException.java
- InvalidDateException.java
- DateTest.java
- TriangleTest.java

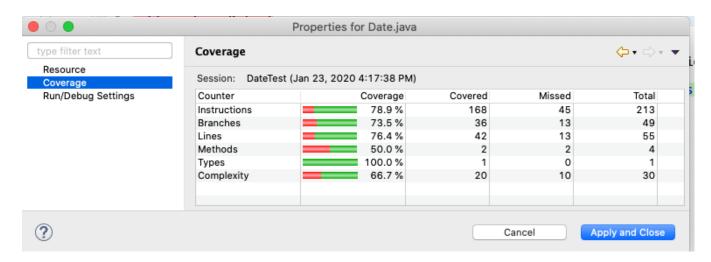
For the Triangle class, code the test cases for Robust Worst-Case Boundary Value Testing (Table 4) as described in the file Boundary Value Testing-Triangle.pdf. The TriangleTest class provides you with the template methods to complete.

Similarly, for the Date class, code the test cases for Robust Worst-Case Boundary Value Testing (Table 4) as described in the file Boundary Value Testing-NextDate.pdf. The DateTest class provides you with the template methods to complete.

Instructions:

- Use JUnit 5 framework's parameterized testing feature to code the test cases identified from applying the Robust Worst-Case Boundary Value testing method to Triangle and Date classes.
- Complete the "TO DO" sections in TriangleTest and DateTest classes.
- DO NOT modify any other classes provided to you.
- Get all the tests (343 tests each for Triangle and Date classes) to pass.
- After all the tests (343 tests for each class under test) pass, use EclEmma to measure code coverage. You can accomplish this by doing the following:
 - Right-click TriangleTest class and select "Coverage As -> JUnit Test" to run the tests in coverage mode.
 - Right-click the Triangle class in the Coverage view and select Properties and then select Coverage. Take a snapshot of the resulting window and upload the resulting image file to Blackboard (see images below).
 - Right-click DateTest class and select "Coverage As -> JUnit Test" to run the tests in coverage mode.
 - Right-click the Date class in the Coverage view and select Properties and then select Coverage. Take a snapshot of the resulting window and upload the resulting image file to Blackboard (see images below).





- Upload only the following two test files and the code coverage images file by due date.
 - DateTest.java
 - TriangleTest.java
 - Two code coverage image files
- Due Date: Friday, January 31st by 11:59PM on Blackboard