

Gael Dupuy – 300063750 – Lab 8

What is a mutation being killed? :

A mutation being killed, means a mutation was done to the code, which failed the tests. This is a good sign it shouldn't pass them.

What is this report saying? :

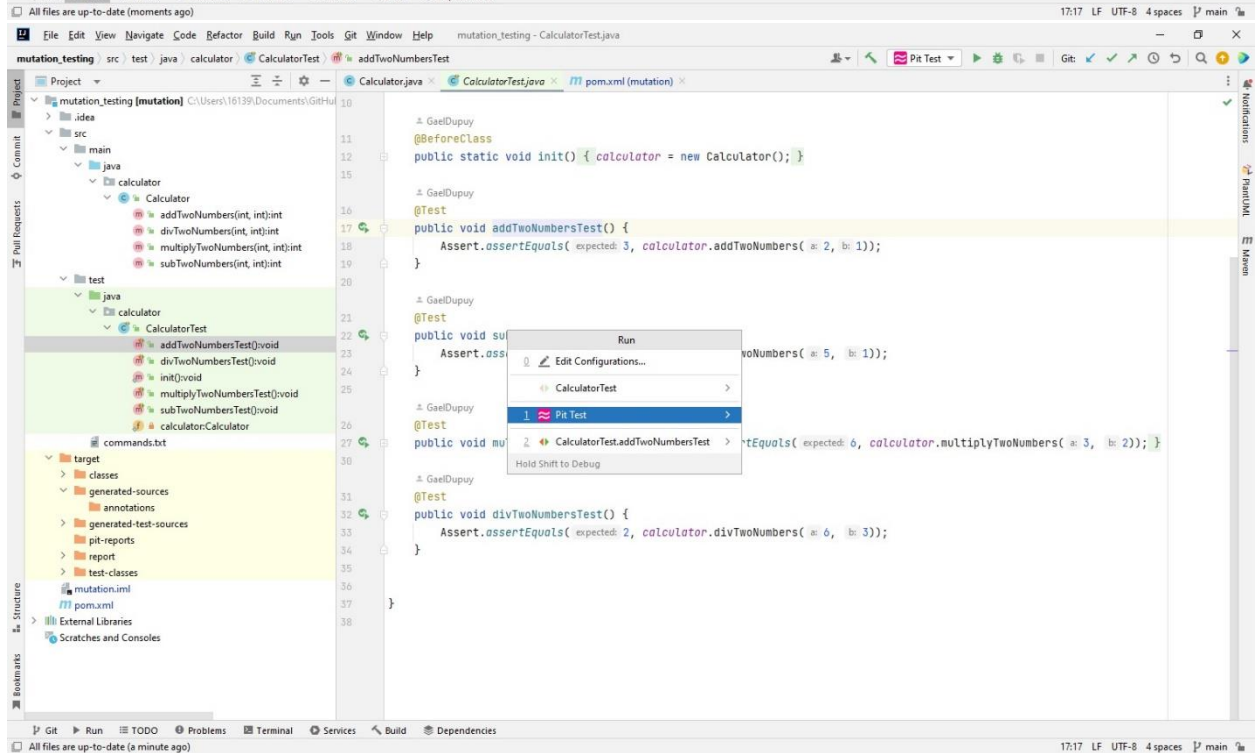
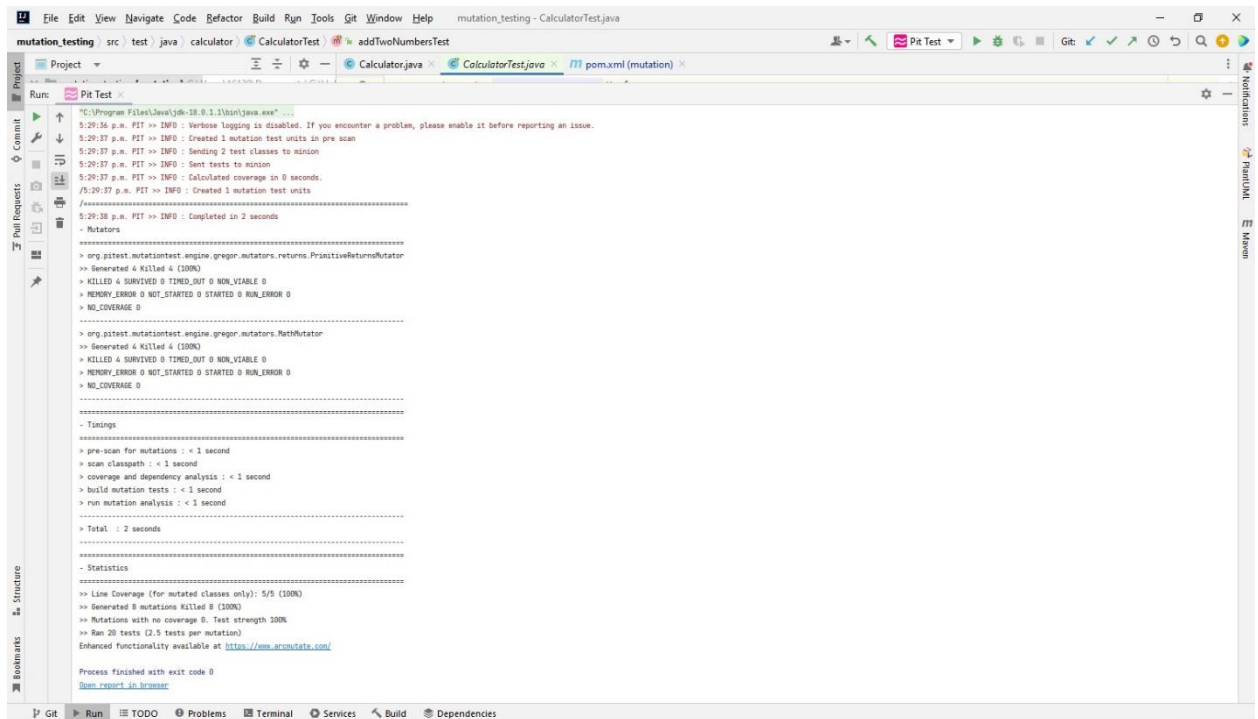
The top section "number of classes" shows the sum of the stats for all the classes tested. In this example, given only one class was tested, the number of classes and the Calculator.java sections look identical, but it wouldn't be the case if more than 1 class was tested.

Line coverage indicates how many lines are covered. The result shows us that out of the 5 lines, 5 are covered.

Mutation coverage shows how many mutations were killed out of the ones created. In this case, they were all eliminated which is ideal (you want this to be 100%).

Test Strength: Shows how many of the mutants for which there was test coverage for were killed. In this case its 100%.

Pictures of the test being run and of the result/web report:



Pit Test Coverage Report

Package Summary

calculator

Number of Classes	Line Coverage	Mutation Coverage	Test Strength
1	100% <div>5/5</div>	100% <div>8/8</div>	100% <div>8/8</div>

Breakdown by Class

Name	Line Coverage	Mutation Coverage	Test Strength
Calculator.java	100% <div>5/5</div>	100% <div>8/8</div>	100% <div>8/8</div>

Report generated by [PIT](#) 1.15.2