

Pit Test Coverage Report

Package Summary

default

Number of Classes	Line Coverage	Mutation Coverage	Test Strength
1	100% 9/9	80% 8/10	80% 8/10

Breakdown by Class

Name	Line Coverage	Mutation Coverage	Test Strength
Lab9.java	100% 9/9	80% 8/10	80% 8/10

Report generated by [PIT](#) 1.15.8

Lab9.java

```
1  import java.util.ArrayList;
2
3  public class Lab9 {
4      public int doGraham(ArrayList<Point> p) {
5          int i, j, min, M;
6
7          Point t;
8          min = 0;
9
10         // search for minimum:
11         for (i = 1; i < p.size(); ++i) {
12             if (p.get(i).y < p.get(min).y) {
13                 min = i;
14             }
15         }
16
17         // continue along the values with same y component
18         for (i = 0; i < p.size(); ++i) {
19             if ((p.get(i).y == p.get(min).y) && (p.get(i).x > p.get(min).x)) {
20                 min = i;
21             }
22         }
23
24         return min;
25     }
26 }
```

Mutations

- 11 1. changed conditional boundary → KILLED
- 11 2. negated conditional → KILLED
- 12 1. negated conditional → KILLED
- 12 2. changed conditional boundary → SURVIVED
- 18 1. changed conditional boundary → KILLED
- 18 2. negated conditional → KILLED
- 19 1. negated conditional → KILLED
- 19 2. negated conditional → KILLED
- 19 3. changed conditional boundary → SURVIVED
- 24 1. replaced int return with 0 for Lab9::doGraham → KILLED

Active mutators

- CONDITIONALS_BOUNDARY
- EMPTY_RETURNS
- FALSE_RETURNS
- INCREMENTS
- INVERT_NEGS
- MATH
- NEGATE_CONDITIONALS
- NULL_RETURNS
- PRIMITIVE_RETURNS
- TRUE_RETURNS
- VOID_METHOD_CALLS

Tests examined

- Lab9Test.[engine:junit-jupiter]/[class:Lab9Test]/[method:doGrahamTest()] (18 ms)

Report generated by [PIT](#) 1.15.8