

Testing 2 EclEmma Homework:

Instructions:

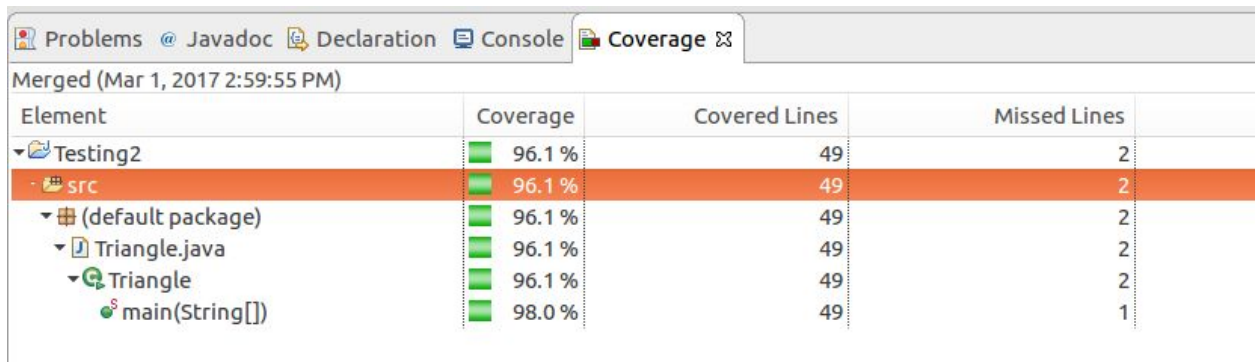
1. Install EclEmma on Eclipse (help -> Eclipse Marketplace -> search EclEmma -> Install)
2. Write some code that has at least 10 branches. (Hint: the tool can tell you how many branches a program has)

3. Run multiple different tests on the code

4. Merge the tests

5. Set the coverage type to line counters

6. Take a screenshot of your coverage tab on eclipse

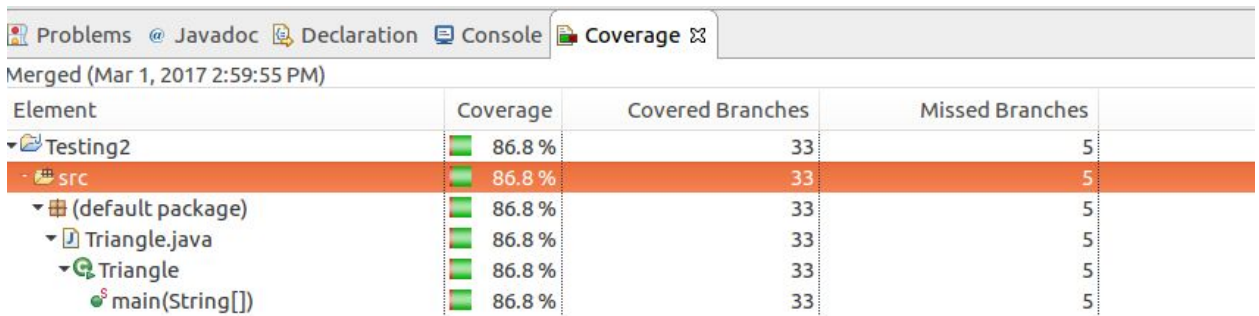


The screenshot shows the Eclipse IDE's Coverage tab. The toolbar at the top includes 'Problems', 'Javadoc', 'Declaration', 'Console', and 'Coverage'. The main area displays a table for 'Merged (Mar 1, 2017 2:59:55 PM)' with columns: Element, Coverage, Covered Lines, and Missed Lines. The tree structure shows 'Testing2' expanded, with 'src' selected. Under 'src', there is a '(default package)' containing 'Triangle.java', which in turn contains a 'Triangle' class with a 'main(String[])' method.

Element	Coverage	Covered Lines	Missed Lines
Testing2	96.1 %	49	2
src	96.1 %	49	2
(default package)	96.1 %	49	2
Triangle.java	96.1 %	49	2
Triangle	96.1 %	49	2
main(String[])	98.0 %	49	1

7. Set the coverage type to Branch

8. Take a screenshot of your coverage tab on eclipse



The screenshot shows the Eclipse IDE's Coverage tab with the coverage type set to 'Branch'. The toolbar and table structure are identical to the previous screenshot, but the columns are 'Coverage', 'Covered Branches', and 'Missed Branches'. The data shows that 86.8% of branches are covered across the entire project, with 33 covered branches and 5 missed branches.

Element	Coverage	Covered Branches	Missed Branches
Testing2	86.8 %	33	5
src	86.8 %	33	5
(default package)	86.8 %	33	5
Triangle.java	86.8 %	33	5
Triangle	86.8 %	33	5
main(String[])	86.8 %	33	5

9. Submit your screenshots

Grading Rubric:

Grade = (Lines covered + 1) / (covered lines + missed lines)

A = 90 - 100%

B = 80 - 89%

C = 70 - 79%

D = 60 - 69%

F = 0 - 59%