CODE COVERAGE AND ECLEMMA

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Code Coverage

- You cannot test everything…
- Moreover, the same code may need to be tested twice, three times, or more.

EclEmma

- [EclEmma](#) is an Eclipse plug-in that generates code coverage reports and provide simple trace information about test cases.

- Coverage is defined as a measure of the completeness of the set of test cases.
  - The more source code that is executed by your test cases the better.

- EclEmma may be used on top of JUnit.

- EclEmma runs the JUnit test cases and generates the coverage report from the execution. EclEmma provides overall, package, and file level information on statement.

How to install ECLEmma

- 1. From your Eclipse menu select *Help → Install New Software...*
- 2. In the *Install* dialog enter http://update.eclemma.org/ at the *Work with* field.
- I agree, I agree, etc. etc.

How to Run ECLEmma

- Go to the project folder

- Right click -> coverage As Junit Test

- Pre-conditions:
  - Logic code and tests are in two different packages (e.g., logic and test)

How to Interpret ECLEmma

- The report shows the percentages of instructions covered by the test at the package, class, and method level.
- Do not care about test coverage on test classes.