

# Instructions – Participant ID: 29

## Objective

- Your target class: `org.apache.commons.cli1.Option`
- Test the class as thoroughly as possible with the help of EvoSuite.
- You have 60 minutes time. You are finished earlier if you a) have written test cases to cover all the code, and b) are sure there are no further bugs.
- To start the experiment enter your participant ID at <http://study.evosuite.org> and follow the instructions.

## Notes on EvoSuite

- Use EvoSuite to generate the initial test suite:  
Right click on `org.apache.commons.cli1.Option` the package explorer and select EvoSuite → Generate JUnit Test Suite.
- EvoSuite will place the resulting test suite in:  
`evosuite-tests/org/apache/commons/cli1/TestOption.java`
- Put your own tests only in this file.
- Generated assertions may be wrong and need to be analyzed/fixed.
- Feel free to remove assertions or to `@Ignore` tests you do not understand.
- If a generated test case does not compile, just delete it.
- When calling EvoSuite again on the same class, it will ask to overwrite/rename the old class.

## Your target class: `org.apache.commons.cli1.Option`

A command line option represents one parameter a program can receive on the command line. An option consists of a short name and a long name (e.g. `-a` vs `-all`), can have an argument which may be mandatory or optional. An option's description is used when command line documentation is produced.

## Notes on Testing

- There are bugs. A test revealing a bug should fail.
- Tests not revealing bugs should pass.
- You do not need to identify the actual bugs in the code.
- You may fix obvious bugs, but do not waste time debugging.

## Notes on the Experiment

- Please do not install additional plugins in Eclipse.
- Please do not change the build process.
- Please adhere to exam conditions. No conferring, no mobile phones.

## When you're finished

- Before you quit, execute the entire final test suite.
- Please don't exit without filling out the exit survey.