Exercise 4 - Metrics

Pre-Preparations:

1. **Eclipse**: Install and prepare Eclipse Modelling Tools (Version: Mars), if you not already done so. Link: https://www.eclipse.org/downloads/

2. **Project Usus**: Install the Project Usus from the Eclipse Marketplace: http://marketplace.eclipse.org/node/1089. For instructions see the project page: http://www.projectusus.org/

Task:

a) Grab the code "example_for_code_metrics.zip" from OPAL. Compute the cyclomatic complexity of the Methods Transtion.Observer.update() and Transition.fire() from the "model" package.

b) Install "Project Usus" into an Eclipse installation using the following instructions: https://code.google.com/p/projectusus/wiki/InstallationInstructions if you not already have done this.

c) Inspect the example code with Usus. Are the metrics values ok? What are the hotspots in the code?

d) Use Project Usus to check the code of the real-world software library "Desmo-J" (a copy is in OPAL). For example, inspect the method with the highest cyclomatic complexity. What do you notice?