

Post-condition Assertion Checker for Java

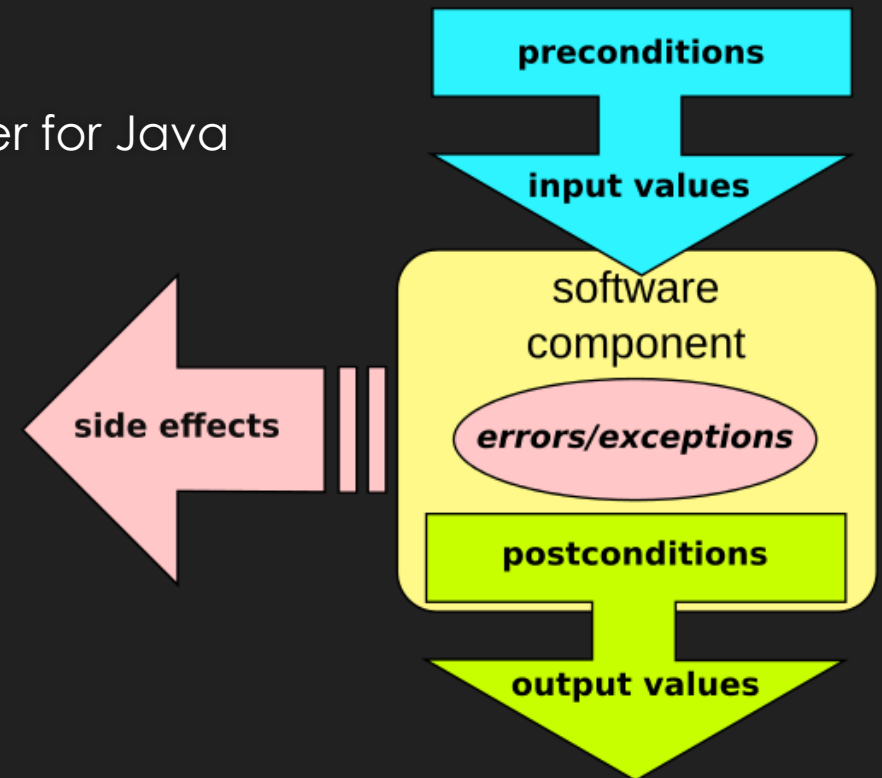
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Overview

- Precondition, postcondition and class invariants
 - Assertions provided in Java to test
 - Run on statement level, can be enabled or disabled
- Problem
 - Assert's design makes postcondition and class invariant checking difficult
 - Hard to check for all possible exit cases, including exceptions

Proposed Project

- Research a better postcondition/class invariant checker for Java
 - Easy to use
 - Minimal additional configuration
 - Can be disabled
 - Maintain compatibility
 - binary, class file, JVM, possibly source
- Modifying OpenJDK to explore solutions in syntax and bytecode generation.



Proposed Benefits

- Postcondition assertions will be easier to implement
 - More programmers will be inclined to use them!