Self-study Questions 6
Due: December 7

1 Instructions for Answering
See Self-study question sheet 1.

2 Handing In
See Self-study question sheet 1.

3 Correcting Answers
The answer to this week’s questions will not be corrected by peer-reviewing. Instead, the last lecture will show the correct system.

4 The Questions
1. Design a simple Java 1.5 annotation system—one or more annotations plus a set of rules to check how they are used—for pure functions in Java. Remember, a pure function is a function that does not cause any side-effects.

You don’t need to write down type rules in the style shown in research papers read during the course, but you will need (type?) rules and restrictions, e.g., expressed in natural language. Be as precise as possible.

Of course, your system must be statically checkable. Try to explain how to statically check purity in your system.