

## Homework 2 (due 3/3/2009)

In this HW you will need to use AspectJ. You can download the compiler from [aspectj.org](http://aspectj.org). (I will probably also give you access on a multi-core machine, which will have AspectJ installed.)

(You will need to adjust your path and CLASSPATH according to the instructions in the README file after installation.)

Implement a simple unbounded stack data type, with at least the usual operations `push`, `pop`, and `top`. Then refine your stack to be thread-safe *by employing a separate aspect* (i.e., do not edit the original stack code). Do not over-synchronize: make sure that multiple non-mutating operations can proceed simultaneously (e.g., multiple `top` operations may be executing at the same time, but no `top` may be executed concurrently with a `pop` or `push`).

Write a report detailing your experience with AspectJ. How easy/hard was your task? How well suited was AspectJ for it? Would you use AspectJ for this task if AspectJ were widely available?