

## Assignment 8 — Direct and continuation semantics — assigned Monday 11 November — due Monday 2 December

This assignment is worth 100 points. This assignment should be done individually—not in teams.

### 8.1 Executable semantics for the tiny imperative language (50pts)

Render the direct semantics of the tiny imperative language, as discussed in class, into ML (or your favorite programming language); this is a matter of cleaning up the notation and making it strict in a few places where we left the mathematical notation intentionally loose.

This will give you an executable semantics for the tiny imperative language. Test it on a few simple imperative programs.

### 8.2 Continuation semantics (50pts)

Repeat the preceding exercise for our final version of the continuation semantics of the tiny imperative language.

### How to turn in

Turn in your code by running `~darko/handin your-file` on a regular UNM CS machine or on *delta*.

You should use whatever filename is appropriate in place of `your-file`. You can put multiple files on the command line, or even directories. Directories will have their entire contents handed in, so please be sure to clean out any cruft.

Remember to submit extensive tests of your programs!

Homework must be accompanied by the following statement: *“I pledge my honor that in the preparation of this assignment I have complied with the University of New Mexico Board of Regents’ Policy Manual, including Section 4.8, Academic Dishonesty.”* The manual is available at <http://www.unm.edu/~brpm/index.html>.