

## 322 Compilers: Assignment 2a

### Register allocation, finishing up

**Due Thursday May 6rd, before class**

**Your job:** Finish the L2 to L1 compiler. That is, implement the graph coloring and wire everything together.

**Handin instructions:** Your compiler must run on the t-lab machines (under linux).

Hand in your assignment by sending email with the subject 2b to [robby@eecs.northwestern.edu](mailto:robby@eecs.northwestern.edu). The email should include a `.tar.gz` attachment that contains (at the top-level) a shell script or binary executable that is your compiler (and whatever supplementary files it needs). The compiler should be called `L2`.

The compiler should accept a filename on the command-line ending with `.L2` and it should write a the L1 program to `stdout` (and nothing else to `stdout`).

The `.tar.gz` file should also contain a top-level directory named `test` containing test case files with the extension `.L2`.

There is no need to produce expected results; the interpreter's output will be taken as definitive, and your implementation will be tested by running your compiler and then running the result in the L1 interpreter. The code it produces should not fail, and the output should match the result of the L2 interpreter on the original program.