

**Code Generation, part 1**

Add a code generator to your compiler. The code generator should generate SPIM code, assuming the target machine has a large number of registers, enough so a different register can be assigned to each node in a given DAG. This version should generate the output assembly language, along with the DAG as in problem 6, and write both to stdout. Later, the output assembly language will be written to a file called "code.out" for assembly by SPIM.