

Tutorial 4: Problems

CSC 467 Compilers and Interpreters
Fall Semester, 2005

1. Modify the gencode algorithm (Fig. 9.25) for a target machine whose arithmetic operation instructions have three operands ALL in registers. This means that an arithmetic instruction looks like this:

$$op\ result\ argument_1\ argument_2$$

where *result*, *argument*₁, *argument*₂ are in registers.

Use your modified algorithm to generate code for the tree in fig. 9.18.

2. Problem 9.14, p.582
3. Problem 9.15, p.582. Justify your answers.