17-355/17-655/17-819: Program Analysis

In-Class Exercises

February 12, 2019

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1. What is the right initial dataflow information for live variables analysis?

2. Draw the CFG, and apply interval analysis (at least a few iterations), for the program below. What happens?

2: if
$$x = y$$
 goto 5

$$3: x := x + 1$$

3. Do the same as question (2), using the widening operator, as discussed.