

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

Lecture: Program Synthesis (Part 2)

In-Class Exercises

March 26, 2019

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1. Assume two components, `*` and `<<`, each of which takes two inputs and produces a single output. Provide `L`, which assigns values to location variables that describe the following straight-line code:

```
def f(z0, z1)
  z2 = z0 << z1      // component <<
  z3 = z2 * z2       // component *
  return z2
```