

Friday, November 8

Name \_\_\_\_\_

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6.035 Fall 2019

Miniquiz #27

5 minutes

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Consider the following program:

```
i = 0;
a = 0;
while (i < 5) {
    j = i*4+5;
    x = a + 1;
    i = i + 1;
}
```

1. Draw the CFG corresponding to the code and identify any loop invariant code.

2. Rewrite the program after performing strength reduction.