

Wednesday, October 19

Name _____

Email _____

6.035 Fall 2016

Miniquiz #16

5 minutes

For the basic block:

```
q = 3
r = 10
s = q + r
t = 2*r+s
t = q
u = q + r
v = q + t
w = 3 + x
```

State which optimization was performed on the above block to produce the following blocks. The optimization choices are: Copy Propagation, Common Subexpression Elimination, and Dead Code Elimination.

1. q = 3
r = 10
s = q + r
t1 = s
t = 2*r+s
t = q
u = t1
v = q + t
w = 3 + x

2. q = 3
r = 10
s = q + r
t = 2*r+s
t = q
u = q + r
v = q + q
w = 3 + x

3. q = 3
r = 10
s = q + r
t = q
u = q + r
v = q + t
w = 3 + x