

Mini Quiz 20

github.com/6035/sp22

Name: _____

Kerberos username (omit @mit.edu): _____

Consider the following code:

```
x = a + b;  
y = x + 1;  
z = x;  
if (x > 0) {  
    z = x + 1;  
}  
else {  
    x = 2;  
}  
y = z + x;
```

Q: Draw the CFG for the above code.

Q: Perform a LIVENESS analysis on the above graph. What are the bitvectors IN and OUT that the analysis computes for each block ? (Assume the code returns y and dumps all other variables)

Q: Does this analysis allow you to perform some optimizations ?