Exercise 3

Feb 5/7, 2008

Given the following example C code,

```
int foo(int a,int b, int k) {
  int d, c,f;
  d = a + b;
  while (1) {
    a = k + 2;
    c = d - b;
    if (c > 100) break;
    f = d - b;
    k = d - 2;
    d = a + b;
}
f = e + k;
return a + b;
}
```

- 1. (10pts) Build a control flow graph for the body of the given function.
- 2. (10pts) Compute the set of variables that are alive at the exit of each basic block.
- 3. (10pts) Compute the set of available expressions at the entry of each basic block.