CSCI 2330 - Fork Exercises

Consider the following snippet of code using fork:

```
int c = 5;
1
2
      pid_t pid = fork();
      if (pid == 0) {
3
4
           c += 5;
5
      } else {
6
           pid = fork();
7
           c += 10;
           if (pid) {
8
9
              c += 10;
10
           }
11
      }
12
      fork();
      printf("%d\n", c);
13
```

- 1. Including the initial process that starts executing the program, how many processes are created when this program is run?
- 2. Draw a picture of the hierarchical process tree that is created by running this program. Remember that **fork** returns 0 in the child and the (nonzero) child PID in the parent.
- 3. What are two different possible outputs of running this program? (you should be able to determine this without actually executing the program!)

Note: there are more than two possibilities!