

CSCI 2330 – Fork Exercises

Consider the following snippet of code using **fork**:

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

1. How many processes are created by this program (**including** the initial process which starts executing at the beginning of the program)?
2. Draw a picture of the hierarchical process tree that is created from running this program.
3. What are two different possible outputs of running this program? You should be able to determine this **without** running the program!

Note: there are more than two possibilities!