

## Homework

1. This code generates 6 processes in total.

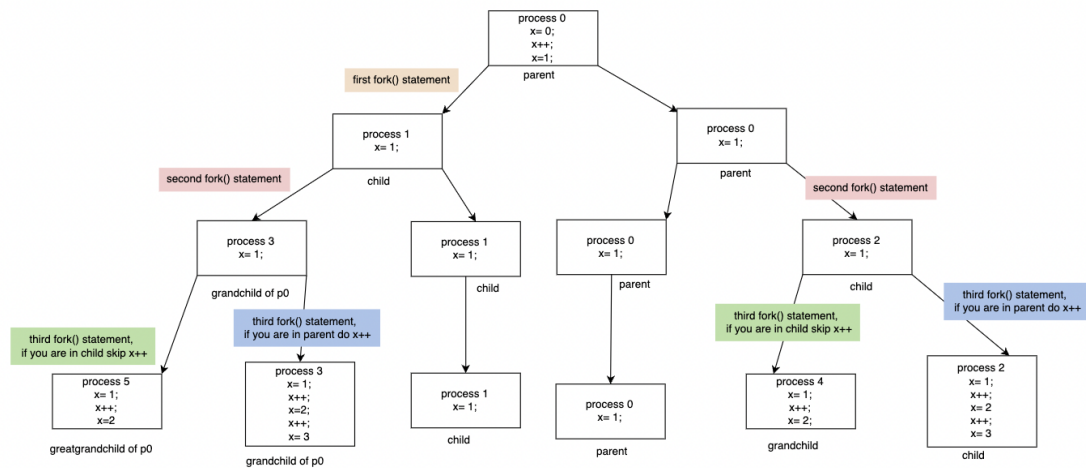
**Code for reference (matching colors in diagram correspond to execution of that code block):**

```
static int x = 0;
int main(int argc, char *argv[]) {
    pid_t p = getpid();

    x++;
    fork();
    if (! fork()) {
        if (fork()) {
            X++;
        }
        X++;
    }

    printf("p%d: x = %d\n", getpid() - p, x);
    return 0;
}
```

This is explained in detail in the picture below.



**B. Output:**

P0 = x = 1

P1 = x= 1

P2 = x = 3

P4 = x = 2

P3 = x = 3

P5 = x = 2