CMSC 216   Process WorksheetII   Spring 2020

1. What is the difference between a thread and a process?

2. Which process has pid **#1**?

3. Give one example of a signal we have seen in class.

4. Why can fork() fail?

5. Why do we need to reap processes?

6. Suppose a parent process creates three children and executes a single call to wait(). Which process will be reaped?

7. Suppose a child process has finished, but init cannot reap it. What can you say about the status of the parent process?

8. Suppose you don't know how many children a parent process created. What code snippet do you need to make sure all child processes are reaped?

9. In your project #4 you wrote student tests. If a student test generated a segfault, tests following that particular test will not run. Modify your student tests so each test is run in a child process. How can the parent know when a test has failed or succeeded?