

CSC 369 Worksheet 2 Solution

August 16, 2020

1 Homework (Simulation)

1. I need to create process trees at each step when the command `./fork.py -s 10` is run.

1) Action: a forks b



2) Action: a forks c



3) Action: c EXITS



4) Action: a forks d



5) Action: a forks e



Notes

- **fork()**
 - Is used to create a new process
 - **Creator** → parent process
 - **Newly Created** → child process
 - Child process is nearly identical to parent process
- **exec()**
 - Allows a child to break free from its similarity to its parent and execute an entirely new program.
- **wait()**
 - Is used to let parent code delay its execution until the child finishes executing.
 - Makes the output deterministic

2. I need to write how the resulting final process trees will look like as the percentage changes. Here I ran command `./fork.py -s 10 -a 20 -f 0.1` and `./fork.py -s 10 -a 20 -f 0.9`

Notes

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2 Homework (Code)

1.