

NYCU OS HW1 report 2021

Name

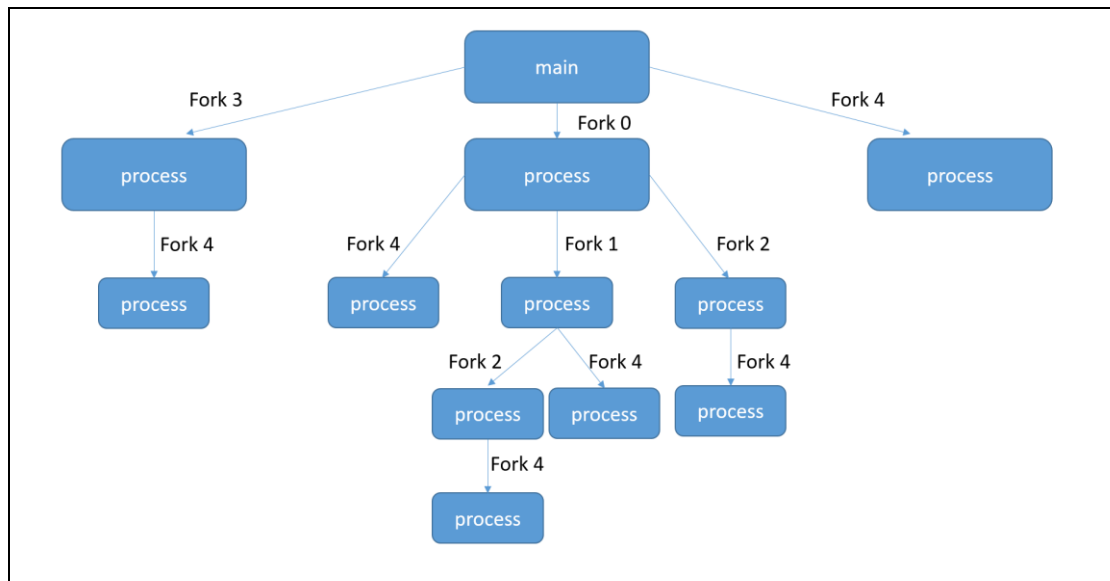
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Student Id

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Q1. hw1_1

Tree format(according to OS_HW1.pdf/p.7):



Q2. hw1_2

Please put your result(screenshot).

Also, write down the problems you met and solutions.

Result

```
super890831@ubuntu:~/Desktop/OS_HW1$ gcc hw1_2.c
super890831@ubuntu:~/Desktop/OS_HW1$ ./a.out
Main Process ID : 4389.
Fork 1. I'm the child 4390, my parent is 4389.
Fork 2. I'm the child 4391, my parent is 4389.
Fork 4. I'm the child 4392, my parent is 4390.
Fork 3. I'm the child 4393, my parent is 4391.
Fork 5. I'm the child 4394, my parent is 4392.
Fork 3. I'm the child 4395, my parent is 4389.
```

Problems & solutions

一開始在印出 pid 時，發現 pid 一直多 print 一個出來，覺得很奇怪，後來發現是我不小心把 main process 的 parent 也 print 出來，最後修改一下 printf 的位置就解決了。

Q3. hw1-3

Please put your result(screenshot).

```
super890831@ubuntu:~/Desktop/OS_HW1$ gcc -o shell hw1_3.c
super890831@ubuntu:~/Desktop/OS_HW1$ ./shell
osh>ls
a.out h1.txt hw1_1.c hw1_2.c hw1_3.c OS_HW1.pdf OS_report.docx shell
osh>date
Sun Oct 17 11:54:21 CST 2021
osh>ps -f
UID          PID    PPID  C STIME TTY          TIME CMD
super89+    4123    4114  0 11:48 pts/0        00:00:00 bash
super89+    4642    4123  0 11:54 pts/0        00:00:00 ./shell
super89+    4645    4642  0 11:54 pts/0        00:00:00 ps -f
osh>cat h1.txt
txt. By 0711506.
osh>exit
```