

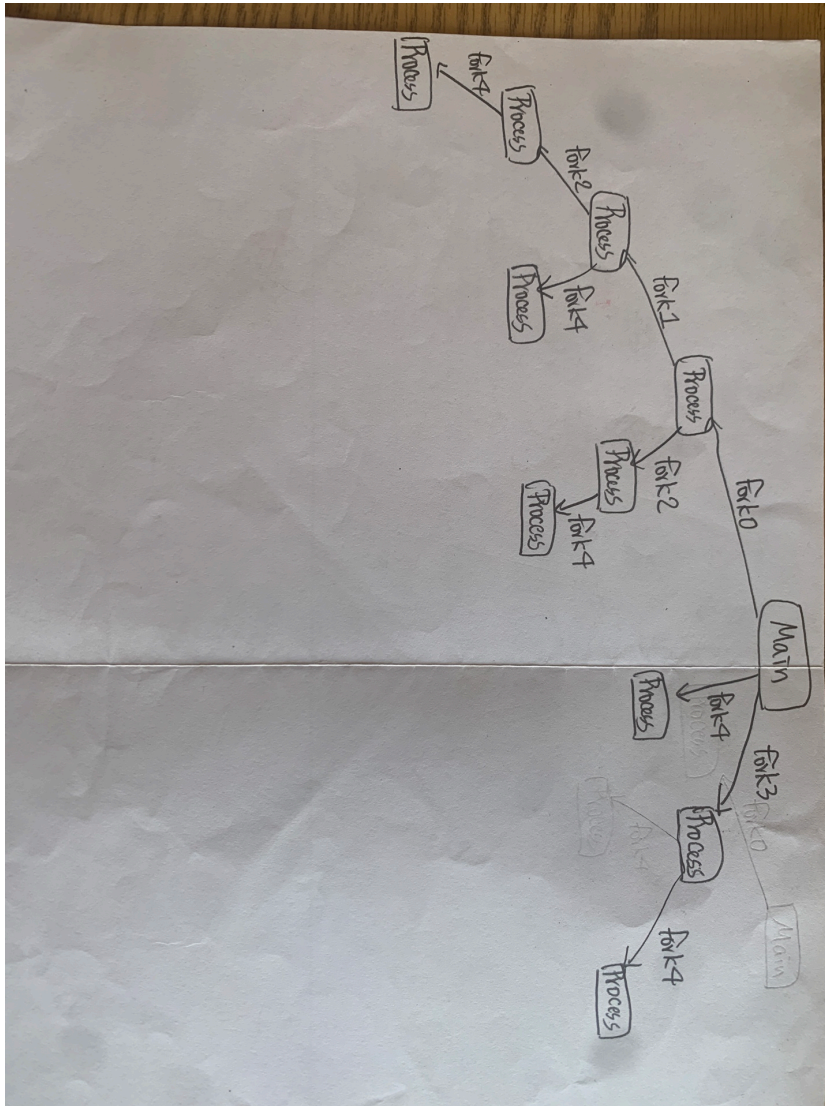
NYCU OS HW1 report 2021

Name

Student Id

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

```
→ OS_HW1 gcc -o com hw1_2.c
→ OS_HW1 ./com
Main Process ID : 72914

Fork 1. I'm the child 72916, my parent is 72914.
Fork 4. I'm the child 72917, my parent is 72916.
Fork 5. I'm the child 72918, my parent is 72917.
Fork 2. I'm the child 72919, my parent is 72914.
Fork 3. I'm the child 72920, my parent is 72919.
Fork 3. I'm the child 72921, my parent is 72914.
```

Problems & solutions

我的做法是一條線程做完再做下一條線程。用PID分辨parent 與 child，以作後續的動作。

另外，若parent沒有設wait()，答案會差有點多。

Q3. hw1-3

Please put your result(screenshot).

```
→ OS_HW1 gcc -o com hw1_3.c
→ OS_HW1 ./com
osh>ls
123.txt      OS_HW1.pdf      OS_report.docx  com      hw1_2.c      hw1_3.c
osh>cat 123.txt
hello
osh>date
Wed Oct  6 12:16:05 CST 2021
osh>ps
  PID TTY          TIME CMD
 65730 ttys000    0:01.33 -zsh
 73019 ttys000    0:00.01 ./com
osh>ps-f
ERROR: command not found
osh>ps -f
  UID  PID  PPID  C STIME  TTY          TIME CMD
   501 65730 65726  0 10:04PM ttys000    0:01.33 -zsh
   501 73019 65730  0 12:15PM ttys000    0:00.01 ./com
osh>exit
→ OS_HW1
```