

# NYCU OS HW1 report 2021

Name

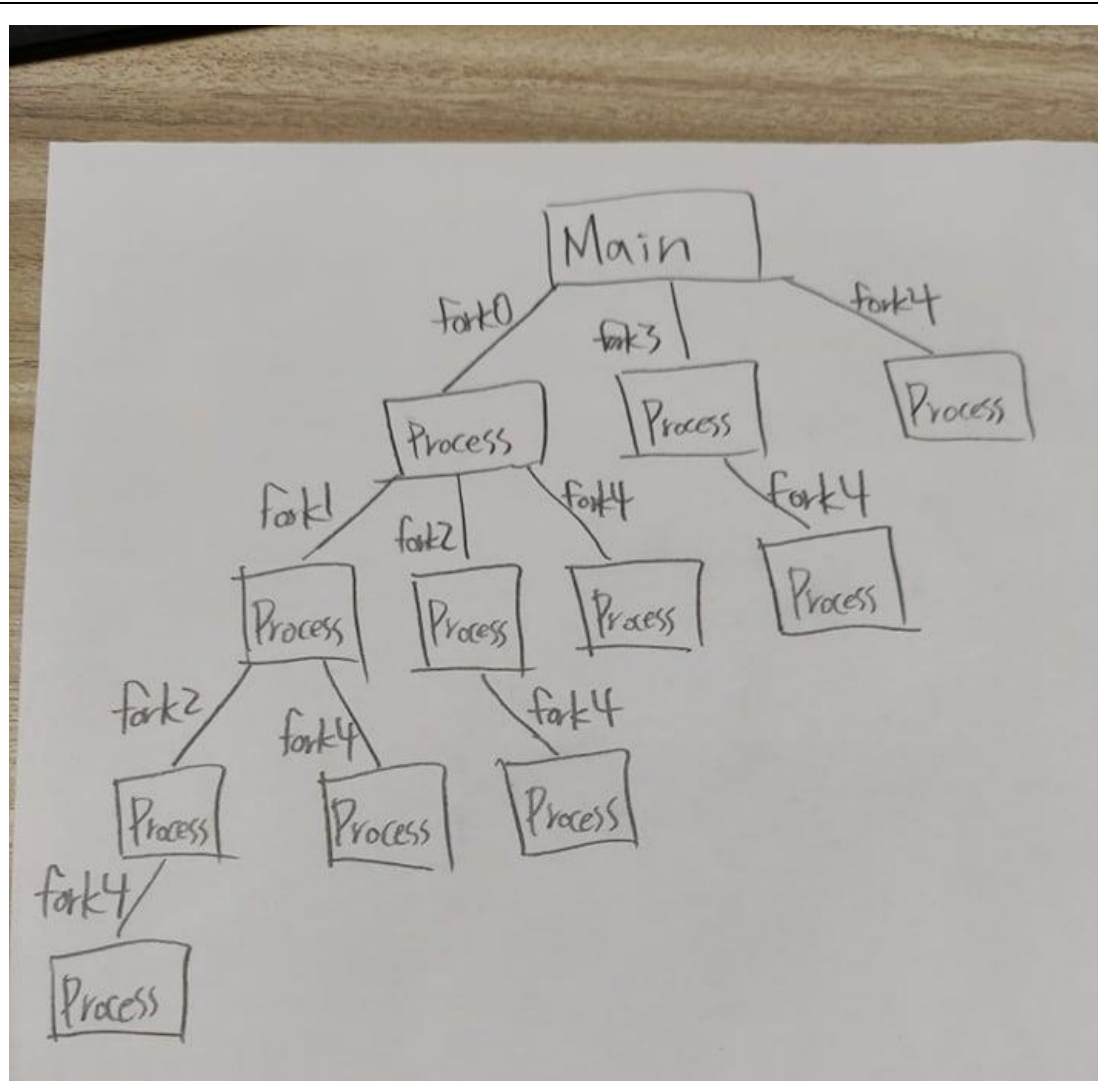
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Student Id

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## Q1. hw1\_1

Tree format(according to OS\_HW1.pdf/p.7):

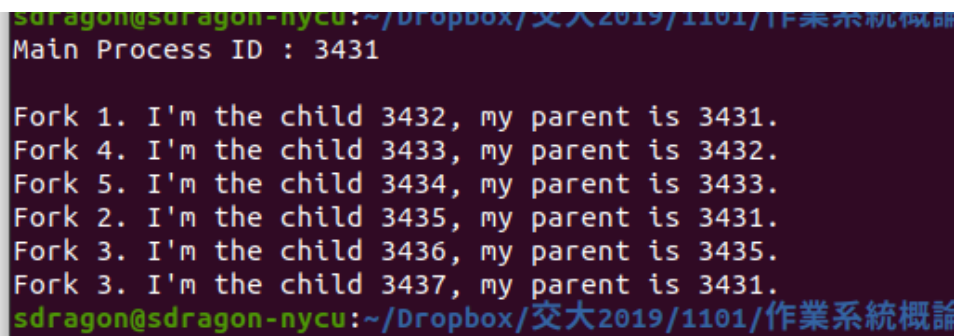


## Q2. hw1\_2

Please put your result(screenshot).

Also, write down the problems you met and solutions.

### Result



```
sdragon@sdragon-nycu:~/Dropbox/交大2019/1101/作業系統概論
Main Process ID : 3431

Fork 1. I'm the child 3432, my parent is 3431.
Fork 4. I'm the child 3433, my parent is 3432.
Fork 5. I'm the child 3434, my parent is 3433.
Fork 2. I'm the child 3435, my parent is 3431.
Fork 3. I'm the child 3436, my parent is 3435.
Fork 3. I'm the child 3437, my parent is 3431.
sdragon@sdragon-nycu:~/Dropbox/交大2019/1101/作業系統概論
```

### Problems & solutions

過程中遇到 output 結果時出現錯誤，原因是沒把 parent 和 child 在 printf 時分開，後來在增加 `if(pid > 0)` `{wait(NULL);}`後便解決了問題。

### Q3. hw1-3

Please put your result(screenshot).

```
sdragon@sdragon-nycu:~/Dropbox/交大2019/1101/作業系統概論/hw1$ ./shell
osh>cat hi.txt
12345
osh>ls
a.out      hw1_3-2.cpp  OS_HW1.pdf          shell
hi.txt     hw1_3.c     OS_HW1.zip
hw1-1.jpg  hw1_3.cpp   OS_report.docx
hw1_2.c    hw1_3.exe   'Screenshot from 2021-10-15 01-03-14.png'
osh>date
西元2021年10月15日 (週五) 01時06分19秒 CST
osh>ps
  PID TTY          TIME CMD
 3324 pts/0        00:00:00 bash
 3585 pts/0        00:00:00 shell
 3590 pts/0        00:00:00 ps
osh>ps -f
UID          PID    PPID  C STIME TTY          TIME CMD
sdragon      3324    3316  0 01:00 pts/0        00:00:00 bash
sdragon      3585    3324  0 01:06 pts/0        00:00:00 ./shell
sdragon      3591    3585  0 01:06 pts/0        00:00:00 ps -f
osh>exit
sdragon@sdragon-nycu:~/Dropbox/交大2019/1101/作業系統概論/hw1$
```