

NYCU OS HW1 report 2021

Name

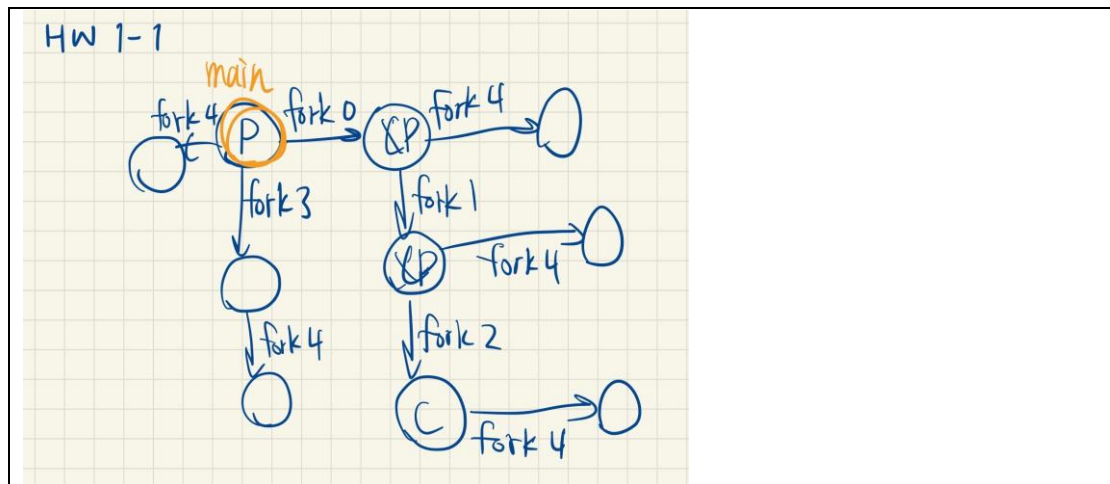
紀竺均

Student Id

109550027

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

```
[ccchi1231@linux3 Homework 1]$ ./out.out
Main Process ID : 2451267
Fork 1. I'm the child 2451268, my parent is 2451267.
Fork 2. I'm the child 2451269, my parent is 2451268.
Fork 3. I'm the child 2451270, my parent is 2451269.
Fork 4. I'm the child 2451271, my parent is 2451267.
Fork 5. I'm the child 2451272, my parent is 2451271.
Fork 6. I'm the child 2451273, my parent is 2451267.
Fork 5. I'm the child 2451274, my parent is 2451273.
Fork 5. I'm the child 2451275, my parent is 2451267.
```

Problems & solutions

At first, I didn't use getpid() and getppid() function call. And it causes me a lot of effort to create many pids. Then I find the functions and everything works just fine.

Q3. hw1-3

Please put your result(screenshot).

```
[ccchi1231@linux3 Homework 1]$ ./out.out
osh>cat hello.txt
Hello world!!
osh>ls
hello.txt          HW1-2.cpp          OS_report.docx
'Homework 1.pdf'   HW1-3_Template.cpp out.out
osh>date
Thu Oct  6 01:43:06 CST 2022
osh>ps -f
UID          PID     PPID  C STIME TTY          TIME CMD
ccchi12+    2974902 2974901  0 01:20 pts/1        00:00:00 -tcsh
ccchi12+    2992185 2974902  0 01:42 pts/1        00:00:00 ./out.out
ccchi12+    2992189 2992185  0 01:43 pts/1        00:00:00 ps -f
osh>pwd
/net/cs/109/109550027/Operating-system/Homework 1
osh>exit
[ccchi1231@linux3 Homework 1]$
```