NYCU OS HW1 report 2022

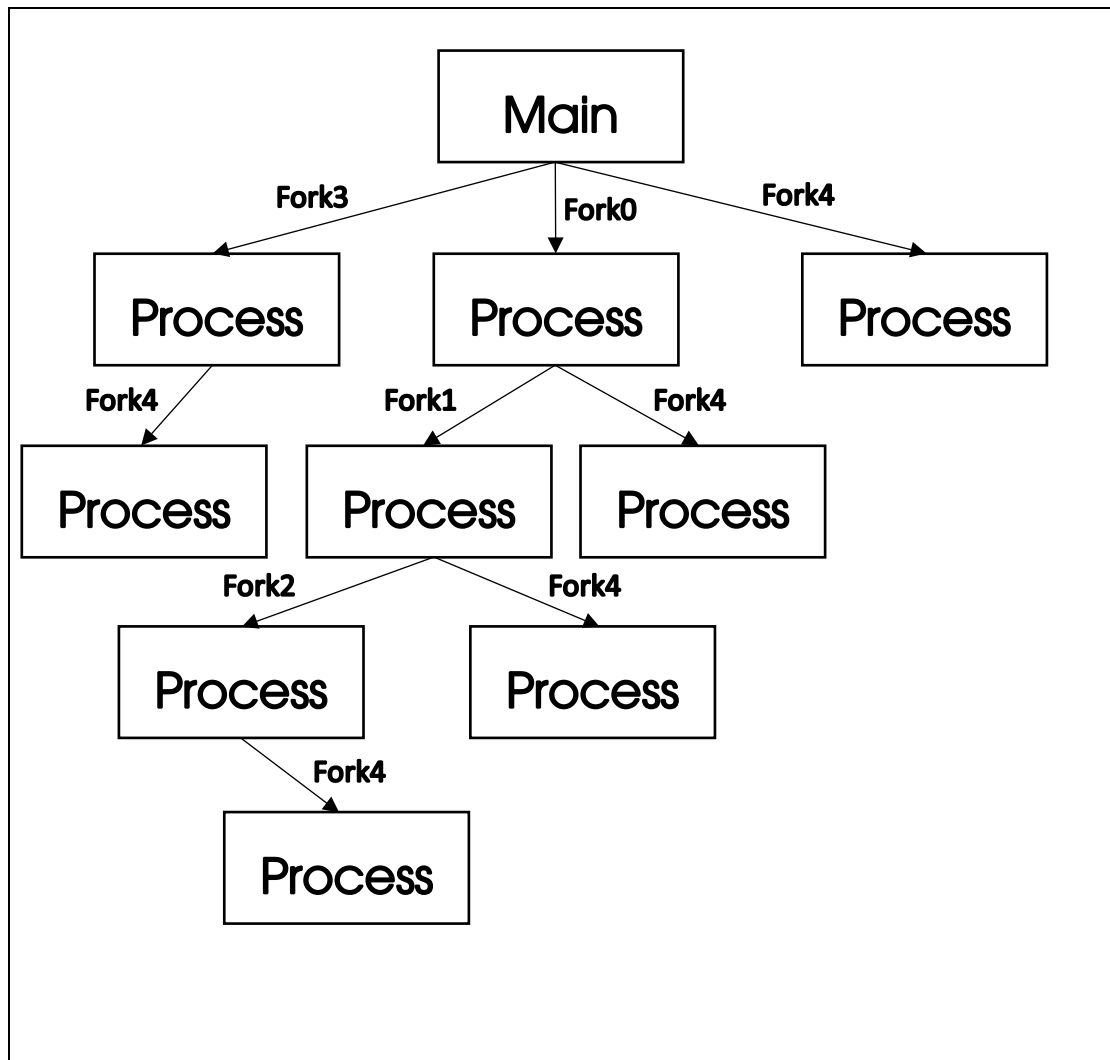Name   郭大寧   Student Id   109550184

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

```
Main Process ID : 634991
Fork1. I'm the child 634992,  my parent is 634991.
Fork2. I'm the child 634993,  my parent is 634992.
Fork3. I'm the child 634994,  my parent is 634993.
Fork4. I'm the child 634995,  my parent is 634991.
Fork5. I'm the child 634996,  my parent is 634995.
Fork6. I'm the child 634997,  my parent is 634991.
Fork5. I'm the child 634998,  my parent is 634997.
Fork5. I'm the child 634999,  my parent is 634991.
```

Problems & solutions

Parent Process ID 有時候出現錯誤，發現 wait 部分有誤。

Fork 順序不對，畫圖確定 fork 實作順序後調整呼叫 fork

位置。

Q3. hw1-3

Please put your result(screenshot).

```
[dnquach184@linux1 ~/109550184_hw1]$ ./hw1_3.out
osh>cat hello.txt
Hello World!!
osh>ls
hello.txt  hw1_2.cpp  hw1_2.out  hw1_3.cpp  hw1_3.out
osh>date
Sun Oct  9 13:03:02 CST 2022
osh>ps -f
UID         PID    PPID  C STIME TTY          TIME CMD
dnquach+  632272  632269  0 12:56 pts/1    00:00:00 -tcsh
dnquach+  651959  632272  0 13:02 pts/1    00:00:00 ./hw1_3.out
dnquach+  653218  651959  0 13:03 pts/1    00:00:00 ps -f
osh>pwd
/net/cs/109/109550184/109550184_hw1
osh>exit
[dnquach184@linux1 ~/109550184_hw1]$
```