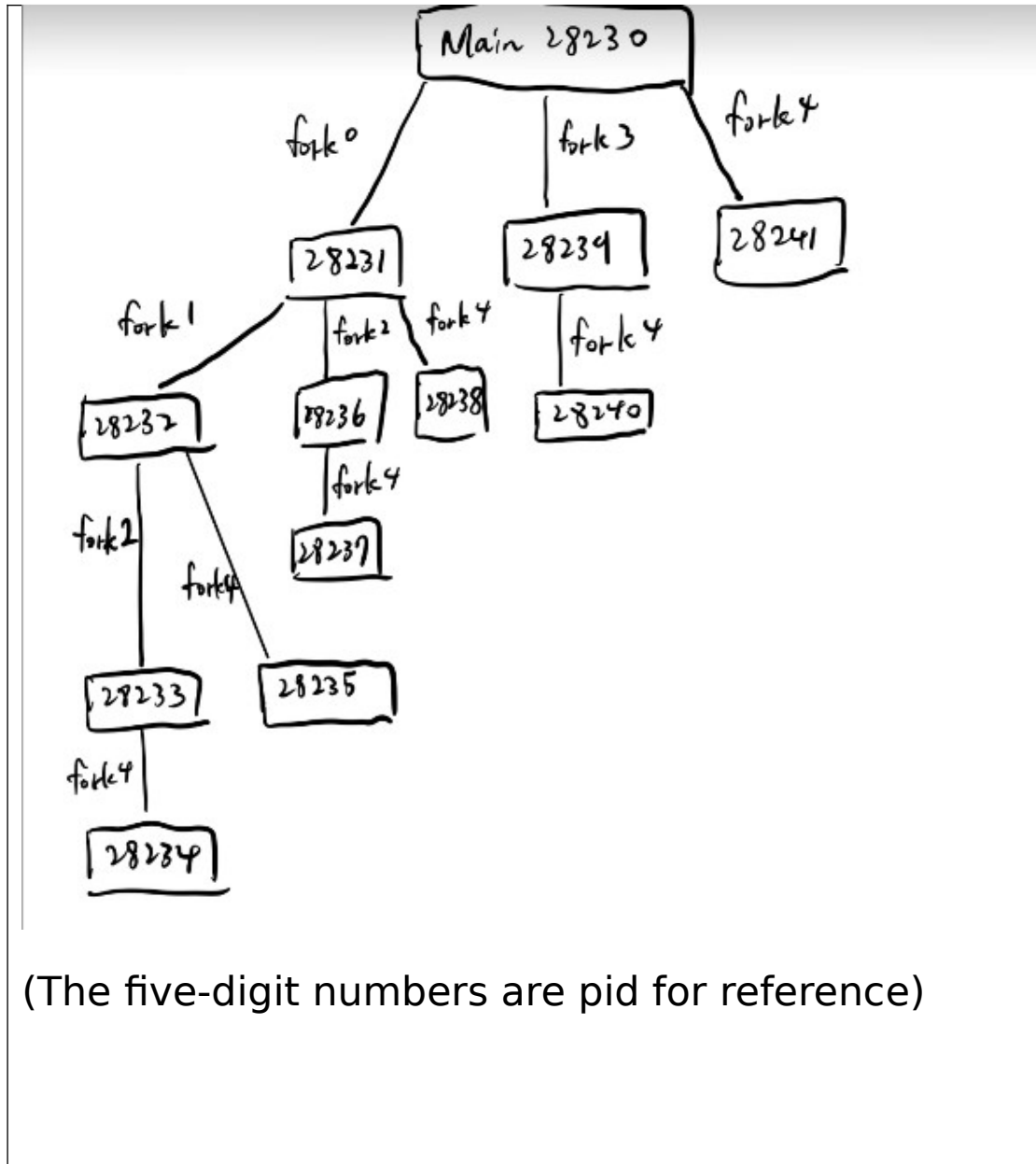


# NYCU OS HW1 report 2021

Name 許承壹 Student Id 0811510

## 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

```
cm967413@cm967413:~/OS/OS_HW1$ ./try
Main Process ID : 29555

Fork 1. I'm the child 29556, my parent is 29555.
Fork 4. I'm the child 29557, my parent is 29556.
Fork 5. I'm the child 29558, my parent is 29557.
Fork 2. I'm the child 29559, my parent is 29555.
Fork 3. I'm the child 29560, my parent is 29559.
Fork 3. I'm the child 29561, my parent is 29555.
```

### Problems & solutions

At first, I don't know when and where should I put the "wait" function in the parent process part, but after studying on the internet, I finally figure out that I should put a wait function inside the parent process parts every time, so the child process won't become a zombie.

### Q3. hw1-3

Please put your result(screenshot).

```
osh>cat hi.txt
12345osh>ls
final happy hi.txt hw1_1.cpp hw1-2.cpp hw1_3.cpp logic logic.cpp OS_report.docx try
osh>date
公曆 20廿一年 十月 十六日 週六 廿三時59分44秒
osh>ps
  PID TTY          TIME CMD
 2882 pts/1    00:00:00 bash
 3186 pts/1    00:00:00 final
 3843 pts/1    00:00:00 ps
osh>ps -f
UID          PID    PPID  C STIME TTY          TIME CMD
cm967413    2882    2785  0 23:55 pts/1    00:00:00 /bin/bash
cm967413    3186    2882  0 23:56 pts/1    00:00:00 ./final
cm967413    3863    3186  0 23:59 pts/1    00:00:00 ps -f
osh>exit
cm967413@cm967413:~/OS/OS_HW1$
```