NYCU OS HW1 report 2021

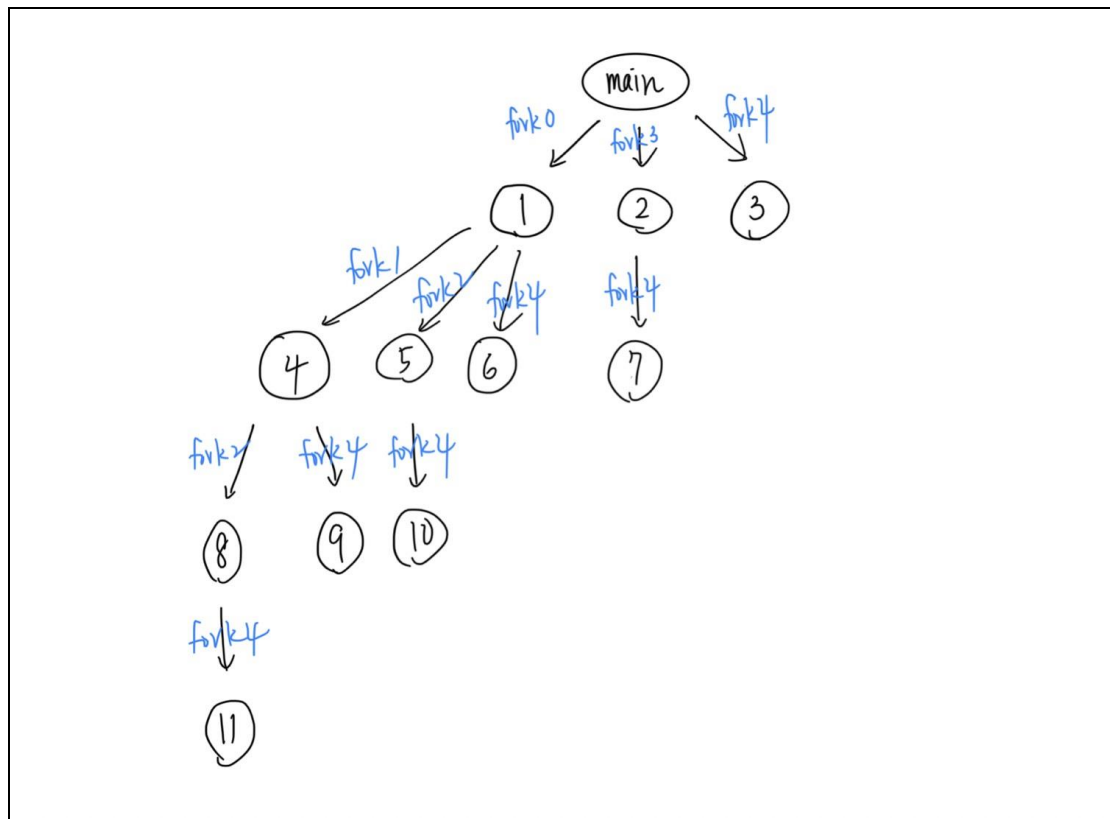Name　　　　　李品慈　　　　　Student Id　　　0816039

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.

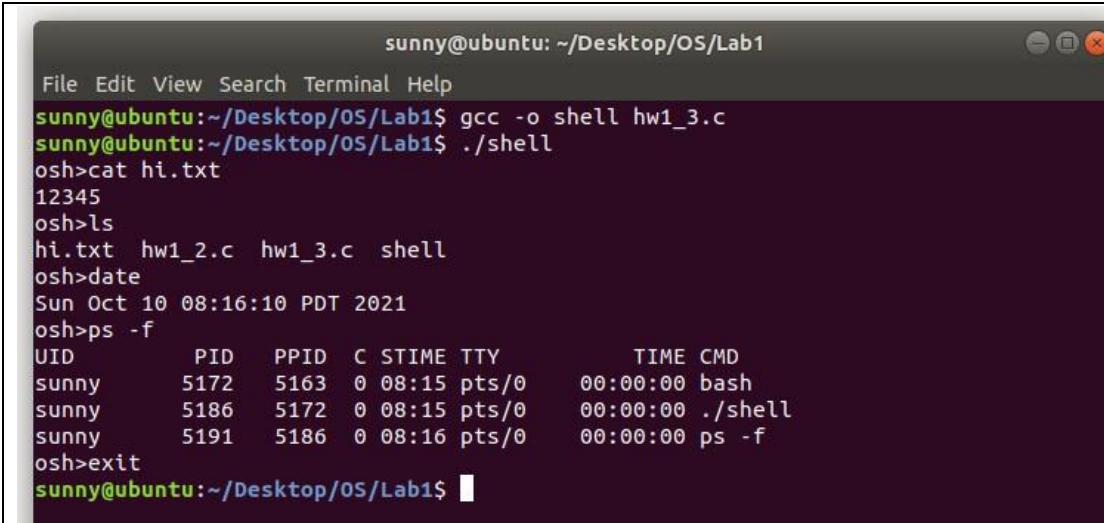| Result |
| --- |
| |

```
Main Process ID: 3545

Fork 1. I'm the child 3546, my parent is 3545.
Fork 4. I'm the child 3547, my parent is 3546.
Fork 5. I'm the child 3548, my parent is 3547.
Fork 2. I'm the child 3549, my parent is 3545.
Fork 3. I'm the child 3550, my parent is 3549.
Fork 3. I'm the child 3551, my parent is 3545.
```

Problems & solutions

I didn't really meet any problems, but I made a little mistake while printing out the result of fork 3. At first, I added an extra printf in the if statement following fork 3. It accidentally print out two more useless lines, I figured out the reason and just removed the extra printf.

Q3. hw1-3

Please put your result(screenshot).

```
                        sunny@ubuntu: ~/Desktop/OS/Lab1
File Edit View Search Terminal Help
sunny@ubuntu:~/Desktop/OS/Lab1$ gcc -o shell hw1_3.c
sunny@ubuntu:~/Desktop/OS/Lab1$ ./shell
osh>cat hi.txt
12345
osh>ls
hi.txt  hw1_2.c  hw1_3.c  shell
osh>date
Sun Oct 10 08:16:10 PDT 2021
osh>ps -f
UID        PID   PPID  C STIME TTY          TIME CMD
sunny      5172   5163  0 08:15 pts/0    00:00:00 bash
sunny      5186   5172  0 08:15 pts/0    00:00:00 ./shell
sunny      5191   5186  0 08:16 pts/0    00:00:00 ps -f
osh>exit
sunny@ubuntu:~/Desktop/OS/Lab1$
```