

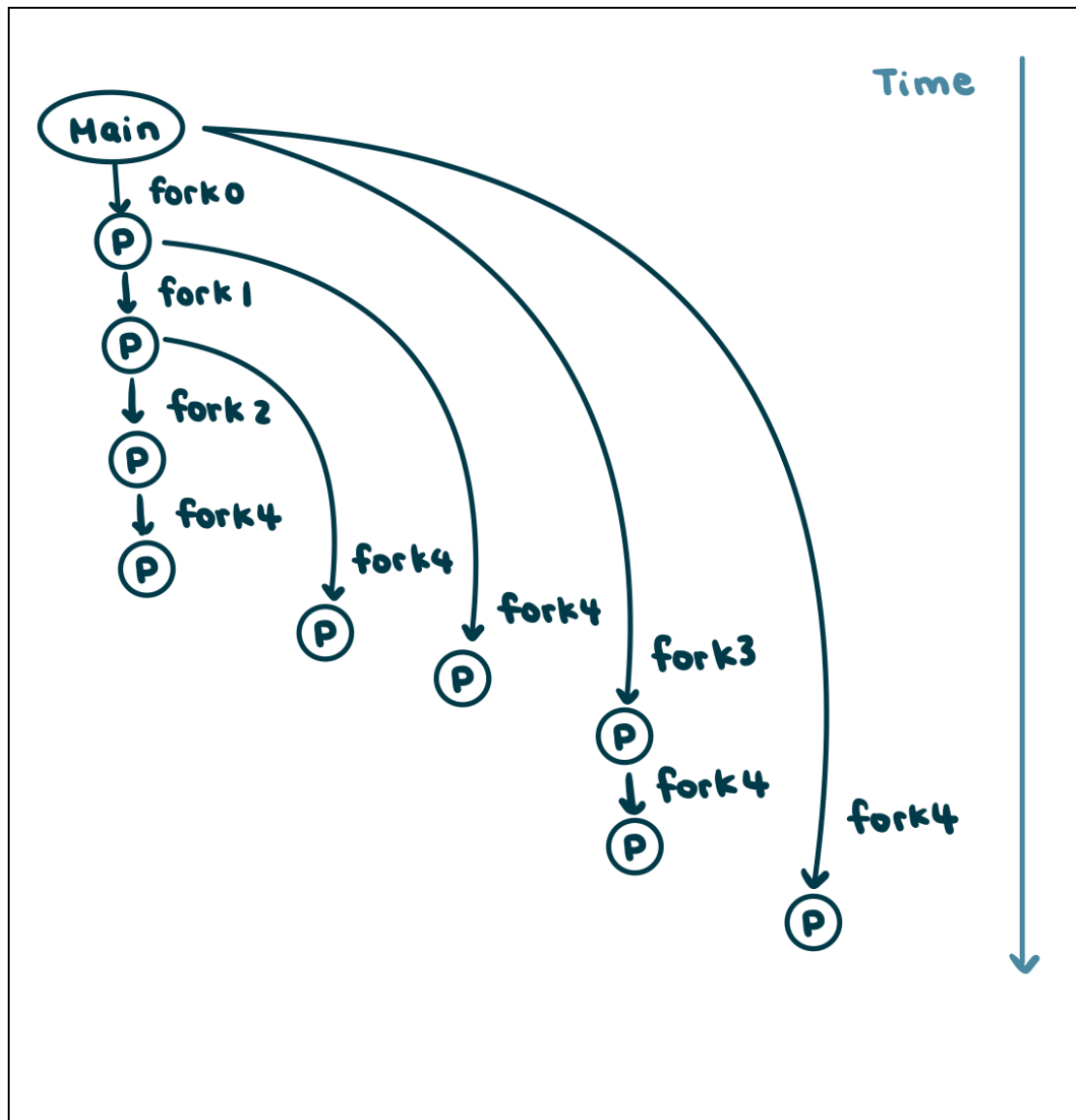
NYCU OS HW1 report 2022

Name 莊婕妤

Student Id 109550182

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 : 4741
Fork 1. I'm the child 4742, my parent is 4741.
Fork 2. I'm the child 4743, my parent is 4742.
Fork 3. I'm the child 4744, my parent is 4743.
Fork 4. I'm the child 4745, my parent is 4741.
Fork 5. I'm the child 4746, my parent is 4745.
Fork 6. I'm the child 4747, my parent is 4741.
Fork 5. I'm the child 4748, my parent is 4747.
Fork 5. I'm the child 4749, my parent is 4741.
```

Problems & solutions

At the beginning, I'm not really sure about how to execute the code on my own pc. I found out how it works after trying to run some sample code (on the slides) on my pc with vscode (I'm using MacOS). It also helped me understand how fork() and wait() work, the mechanism behind creating processes and also the execution order.

Q3. hw1-3

Please put your result(screenshot).

```
osh>cat hello.txt
Hello world!
osh>ls
a.out          hello.txt      hw1_2.cpp      hw1_3.cpp
osh>date
2022年10月 9日 週日 01時09分53秒 CST
osh>ps -f
  UID   PID  PPID   C  STIME   TTY          TIME CMD
   501   5563 66632   0  1:09上午 ttys000    0:00.00 ./a.out
   501  66632 31240   0  1:11上午 ttys000    0:00.22 /bin/zsh -il
osh>pwd
/Users/chiehyu/Desktop/OS Homework
osh>exit
```