

NYCU OS HW1 report 2022

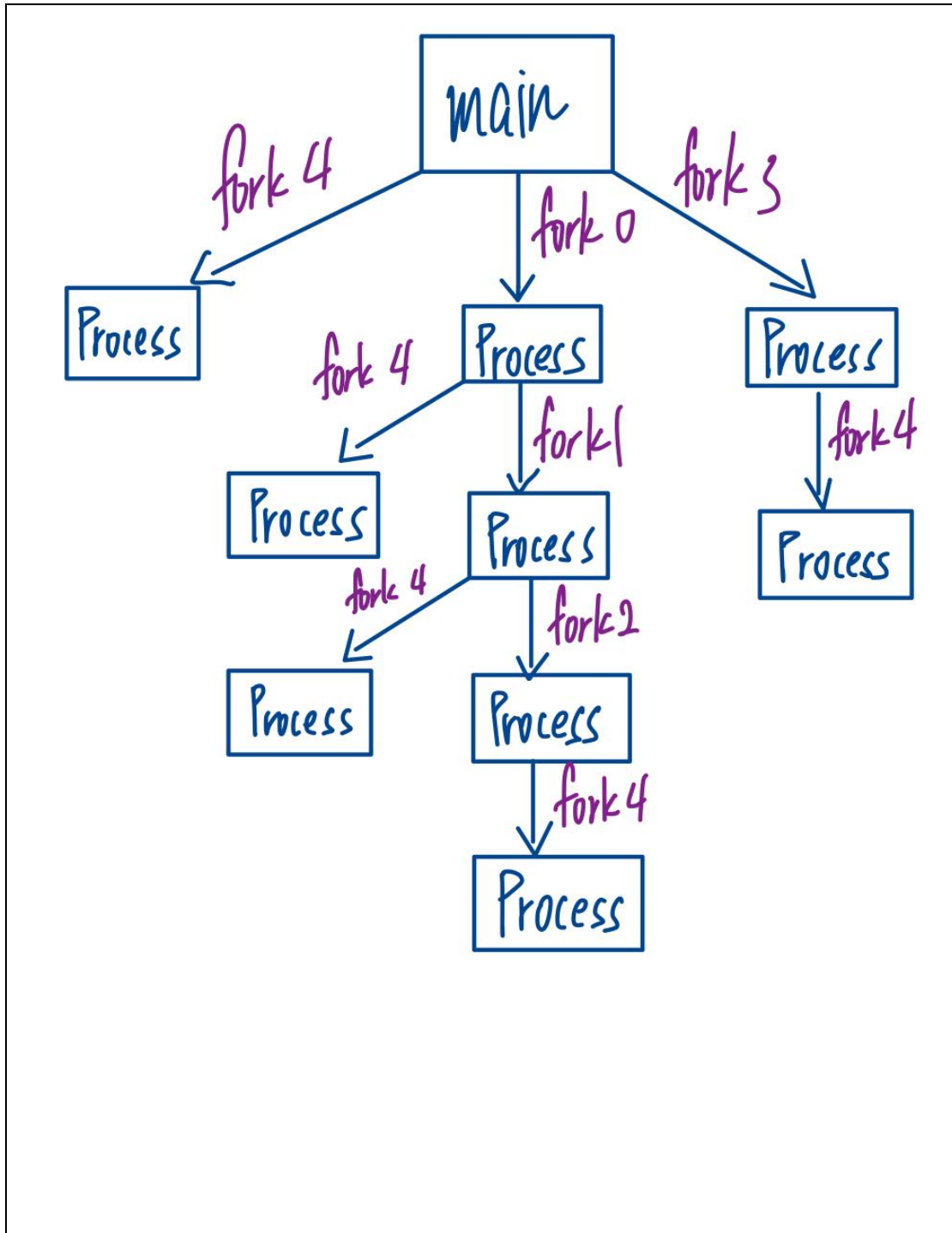
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Q1. hw1_1

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

```
[chehs109@linux2 ~]$ nano hw1_2.cpp
[chehs109@linux2 ~]$ g++ hw1_2.cpp
[chehs109@linux2 ~]$ ./a.out
Main Process Id : 215799
Fork 1. I'm the child 215800, my parent is 215799
Fork 2. I'm the child 215801, my parent is 215800
Fork 3. I'm the child 215802, my parent is 215801
Fork 4. I'm the child 215803, my parent is 215799
Fork 5. I'm the child 215804, my parent is 215803
Fork 6. I'm the child 215805, my parent is 215799
Fork 5. I'm the child 215806, my parent is 215805
Fork 5. I'm the child 215807, my parent is 215799
```

Problems & solutions

Since this is the first time I use fork to generate process, thus the logic to produce result perfectly take me some time. I

have to figure out where to use pid, and print right output.

The timeline also bother me, I can't use wait before fork, but after is more suitable.

Q3. hw1-3

Please put your result(screenshot).

```
[chehs109@linux1 ~]$ g++ hw1_3_1.cpp
[chehs109@linux1 ~]$ ./a.out
osh>cat 1.txt
1
osh>ls
1.txt  a.out  hw1_2.cpp  hw1_3_1.cpp  hw1_3.cpp
osh>date
Mon Oct 10 02:06:17 CST 2022
osh>ps -f
UID          PID    PPID  C  STIME TTY          TIME CMD
chehs109 3073222 3073221  0  02:05 pts/2        00:00:00 -tcsh
chehs109 3073497 3073222  0  02:05 pts/2        00:00:00 ./a.out
chehs109 3074978 3073497  0  02:06 pts/2        00:00:00 ps -f
osh>pwd
/net/cs/109/109550164
osh>exit
[chehs109@linux1 ~]$
```