

NYCU OS HW1 report 2021

Name

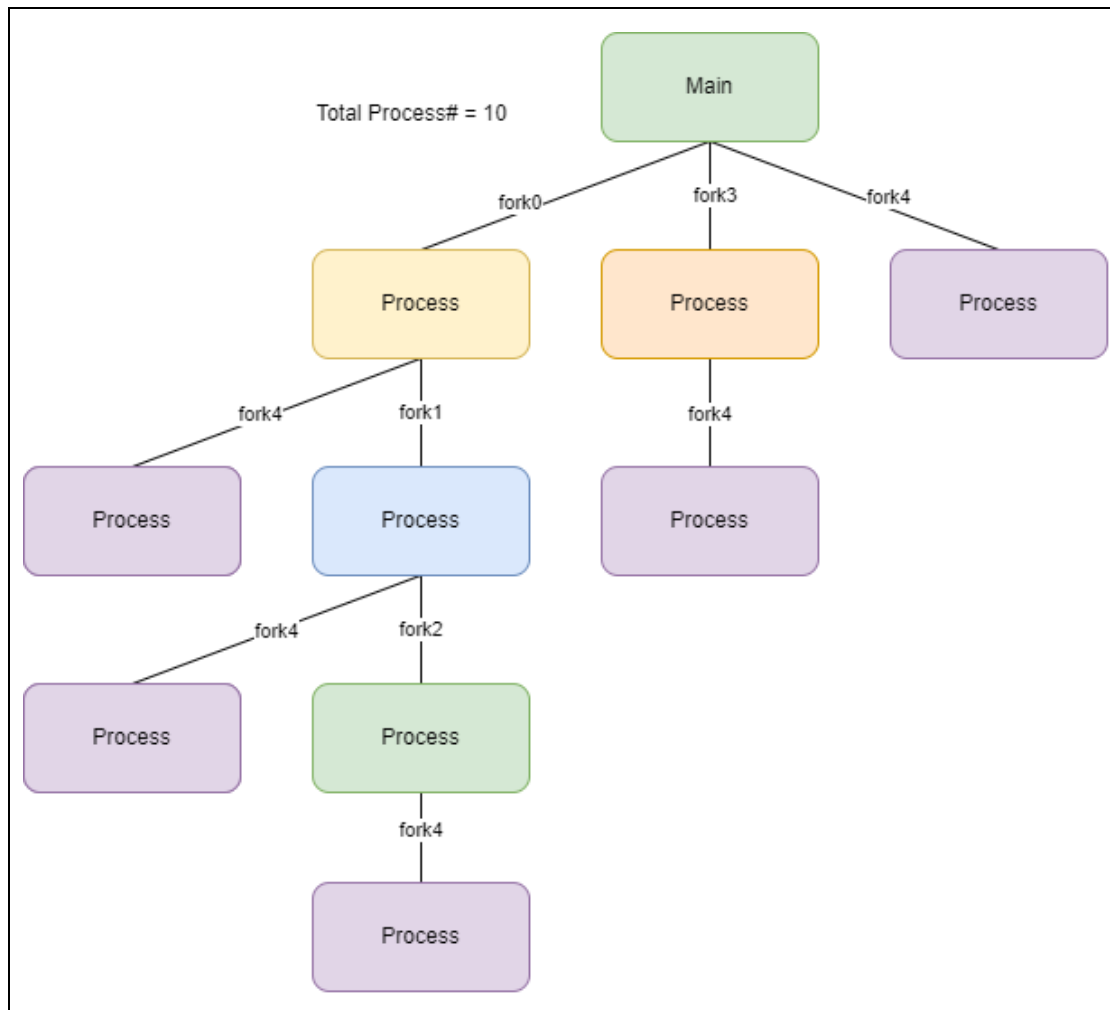
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Student Id

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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

```
[rtlin@linux1 hw1]$ ./hw1_2
Main Process ID : 3631424
Fork 1. I'm the child 3631425, my parent is 3631424.
Fork 2. I'm the child 3631426, my parent is 3631425.
Fork 3. I'm the child 3631427, my parent is 3631426.
Fork 4. I'm the child 3631428, my parent is 3631424.
Fork 5. I'm the child 3631429, my parent is 3631428.
Fork 6. I'm the child 3631430, my parent is 3631424.
Fork 5. I'm the child 3631431, my parent is 3631430.
Fork 5. I'm the child 3631432, my parent is 3631424.
```

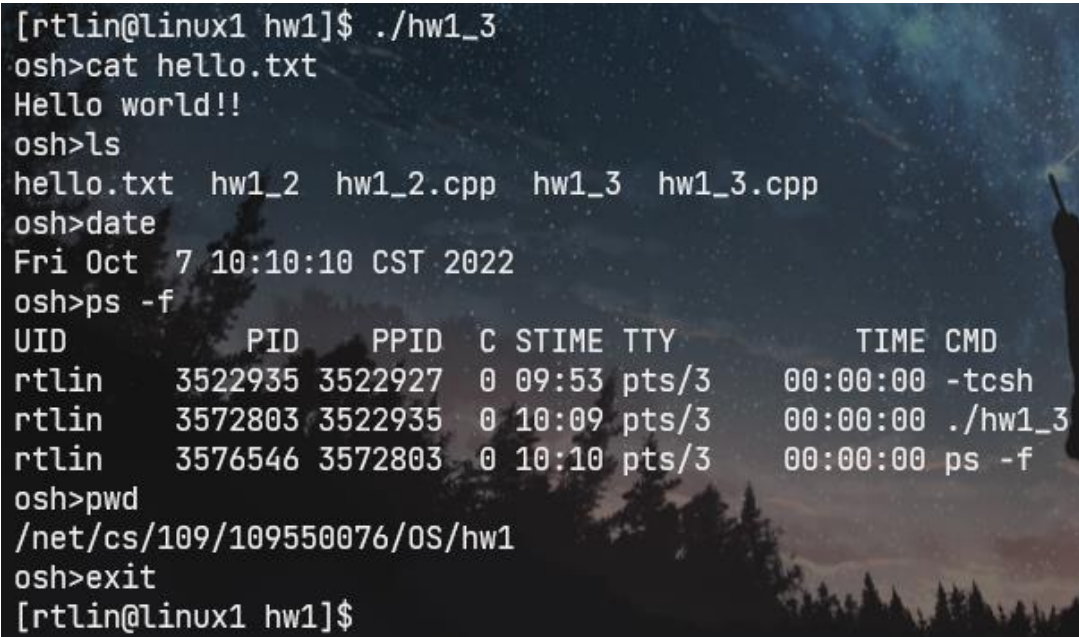
Problems & solutions

There are too many fork() so that I couldn't figure out what to do and how my program is running.

Solution: The program seems much friendlier after I wrote some comments between the codes, so I am able to complete this part of homework.

Q3. hw1-3

Please put your result(screenshot).



```
[rtlin@linux1 hw1]$ ./hw1_3
osh>cat hello.txt
Hello world!!
osh>ls
hello.txt  hw1_2  hw1_2.cpp  hw1_3  hw1_3.cpp
osh>date
Fri Oct  7 10:10:10 CST 2022
osh>ps -f
UID          PID    PPID  C  STIME TTY          TIME CMD
rtlin        3522935 3522927  0  09:53 pts/3        00:00:00 -tcsh
rtlin        3572803 3522935  0  10:09 pts/3        00:00:00 ./hw1_3
rtlin        3576546 3572803  0  10:10 pts/3        00:00:00 ps -f
osh>pwd
/net/cs/109/109550076/OS/hw1
osh>exit
[rtlin@linux1 hw1]$
```