

CSE 344 – SYSTEM PROGRAMING
HW_1 – REPORT
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For this homework, firstly, I worked programA and programB as a single. I create these programs and execute as a process. When I see the correct results of programs, then I worked with together with programA and programB. In these region, file locking is one of the cases. So, I use fcntl() function in the programs as we see in the lesson(Week 3). On the other hand, Inter process communication is also one of the cases. We didn't learn too many IPC methods.

ProgramB had to be alive until the programA terminated. So, there would be a communication between processes. For this purpose, I created a “temp.txt” file. When the programA was terminated, the program had put a “1” character to this file. So, programB would see the situation which programA was terminated.

Makefile is a case. I create a makefile file. But, programB has <math.h> library. So, command -lm had to be at the end of the line. I searched internet etc. but I can't find a correct solution for this. So, I compile the code with hand.

```
mrddoner34@mrddoner34:~$ gcc programA.c -o programA -Wall -O3 -lm
mrddoner34@mrddoner34:~$ gcc programB.c -o programB -Wall -O3 -lm
```

And then, I write “make run” and the programs worked.

Also, there is “make run2”. This deleted the “temp.txt” and then executed the programs.

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