CS 4348 Project 1 Write Up

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What problems did you encounter?
The program is able to run and print out correct message when it run individually.
I spend much time on debugging three programs (main.c, encrypt.c & logger.c), but the Clion system does not allow me to debug the three programs at the same time. I can only run the main but unable to see the result on encryption program and logger program.

What did you learn doing this project?
I have more chance to practice C language along with learning how to do encryption and decryption using C language. I learned more on how to call fork(), pipe() and dup2() function.

If you did not complete some feature of the project, why not?
The main are already set up, main can send out message to logger and encrypt file, but encrypt can only print, but unable to send message back to main.

What unsolvable problems did you encounter?
The driver program freeze on read from encryption result.

How did you try to solve the problems? &Where do you think the solution might lay?
I look up the man page for read, which will proceed only one when there is content in the pipe. Individually running the encryption program did give correct result in standard out. However, it cannot send the result back to the driver program, even though the write side of the pipe is identical of standard out. The solution may lays the way it set up the pipe for standard out between the encryption program and the driver program.

What would you do to try and solve the problem if you had more time?
I will spend more time investigating how to send strings from child process to parent process using pipe & dup function.