**Coding Report for Dian**

Level0-1

1. Stepping into Git through : [git 简明指南 (runoob.com)](https://www.runoob.com/manual/git-guide/), I first encountered the problem that the cloning of repo displayed an error saying the address were separate, which took me a day or two to figure out that that didn’t belong to the same folder (How naive). After scanning through : [Git 五分钟教程 | 菜鸟教程 (runoob.com)](https://www.runoob.com/w3cnote/git-five-minutes-tutorial.html) and other tutorials, a ssh key was finally set up. However, the detailed theory behind it still needs time to get through.
2. The Github account was signed up in Aug. 2023, in which I learnt how to scientifically gain the access to the true internet, and I’m quite proud of my ability to retrieve information, though skills are still not fully honed.

Level0-2

1. Meeting gcc/compile language/process in CS50 for the first time, I wasn’t quite sure about the meaning of certain characters （-o, .i, .E…）. Thanks to : [Gcc简介\_gcc -o\_shunlu的博客-CSDN博客](https://blog.csdn.net/shunlu/article/details/83713942?utm_source=miniapp_weixin), the process of a) Preprocessing, b) Compilation, c) Assemble, d) Linking, eventually became clear.
2. Here are things I found impressive after hand-coding for the first time:
3. After preprocessing, the file size becomes larger, almost twice as the executive file. And it comes back to a petit amount after being compilated into the .s file.
4. The compilation code transformed into machine code （.o, .obj） during assemble, then is linked to other files like lib files so that it can be executed.

Level1-1

1. This part was a bit grammarly challenging for a code beginner. The placement of address characters freaked me out couple of times, but repeating practice truly made me more comfortable doing the exercise following.

Level1-2

1. In this task I chose “fopen”, which is probably most beginner-friendly one after my searching for file writing/reading.

Level1-3

1. I tried to learn the LOOK algorithm from CSDN and stack overflow, but the tutorials are mainly written in C++, so I picked a easier way to present it. Below is the incomplete array format LOOK algorithm I did with the help of CSDN.

