Shogi Result Report

1.compile result

cornertw@DESKTOP-HD1IFP1:/mnt/c/Users/Max Liu/NCU_Documents/DSA_project/shogi\$ gcc main.c -lev cornertw@DESKTOP-HD1IFP1:/mnt/c/Users/Max Liu/NCU_Documents/DSA_project/shogi\$./a.out

2.execute result

https://voutu.be/5IE3OZIKjo0

This is the demo video.

This video shows reading the game record and going to the next move and going back to the previous move, and actually playing.

```
Loadng...
```

This is the image when loading the shogi game.

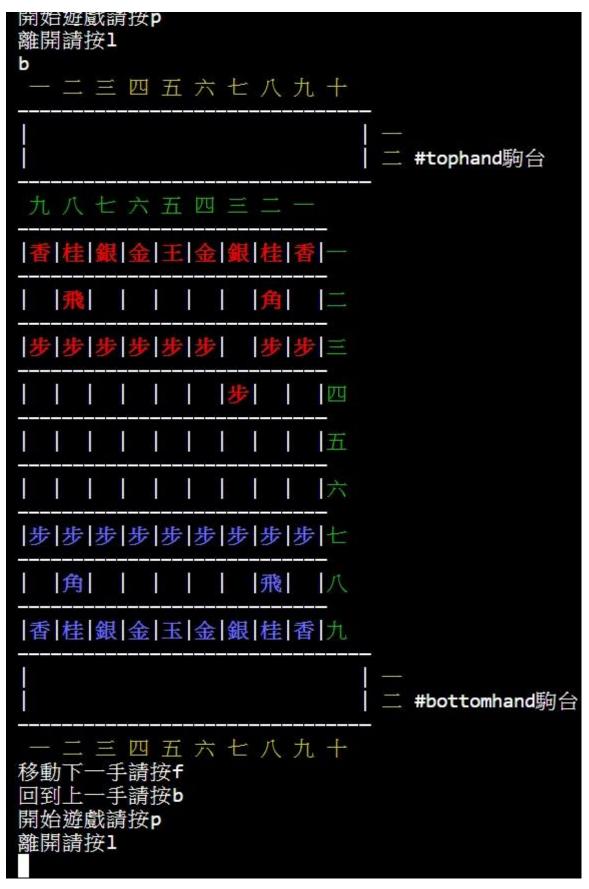
```
開始遊戲請按p
離開請按1
    三四五六七八九十
                            #tophand駒台
          \mathcal{F}_{1}
            DU
  桂銀金
1
       1
         = | :
           1
 7
    1
                     TU
1
    ı
  Г
       I
            I
                     \mathcal{T}_{\mathbf{I}}
步步步步步步步
  角
                 新
香桂銀金玉金銀桂香九
                            #bottomhand駒台
       四五六七八九十
      手請按f
回到上一手請按b
開始遊戲請按p
離開請按1
```

When a player enters 'r', the game will read the chess record.

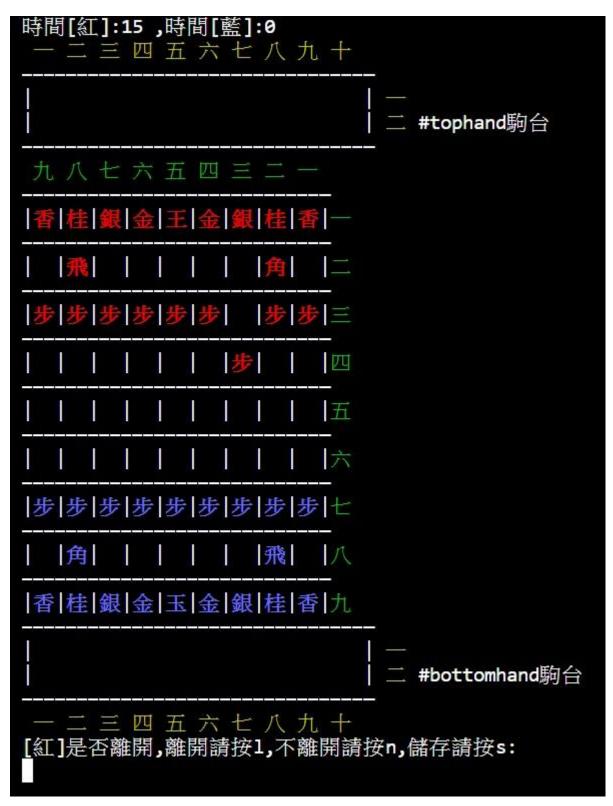


When a player enters 'f', the chessboard will move to the next board. During the game record, I regretted the move, so the blue side moved twice in a row.

開始遊戲請按P 離開請按1 b
一二三四五六七八九十
— — — 二 #tophand駒台
九八七六五四三二一
香桂銀金王金銀桂香一
飛 角 二
歩 歩 歩 歩 歩 歩 歩 三
歩 歩 歩 歩 歩
角 飛 八
香 桂 銀 金 玉 金 銀 桂 香 九
一二三四五六七八九十 移動下一手請按f 回到上一手請按b 開始遊戲請按p 離開請按1



When a player enters 'b', the chessboard will move to the previous board.



When a player enters 'p', the game will start, and the timer will also start.

3.problem

Because I used the index array, I wrote the file directly at the beginning, so when reading the file, there will be errors. Later, the problem is solved by replacing the content pointed by the index array with characters, and then converting the file after reading.

At the beginning, the timer was written without considering the execution of the multi-line layer. Later, it was discovered that the timer cannot be performed at the same time as shogi. Libev couldn't understand it at the beginning, and it took me a long time to understand it a little bit, and then I could write out the timer.

4.Summarize

Writing a shogi game was really fun and helped me learn more about shogi. In this homework, I learned that I have to plan the system architecture before I know what to do, and I also learned the application of some indicators, as well as libev. I know that I still have many shortcomings, and I hope to be more familiar and improve.