Assignment #2

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1. 編譯結果

```
    (base) youjinyang@youjinyangdeMacBook-Pro shogi % make all
gcc -Wall ./src/shogi.c -I ./inc -c
gcc ./obj/shogi.o -o ./bin/shogi
```

2. 執行結果

(create new game)

Wrong move – disobey the rule (example)

```
1 2 3 4 5 6 7 8 9

香桂銀金王金銀桂香 9

飛 角 8

步步步步步步步步 7

6 5

4

步步步步步步步步 5 7

6 5

4

步步步步步步步步 5 8

香桂銀金王金銀桂香 1

青桂銀金王金銀桂香 1

Player B play!

Please enter the coordinate of the piece that you want to move:
1 3

Please enter which coordinate you want this piece to move to
1 5
```

Correct move (example)

```
This is hand no. 2
Player R play!
Please enter the coordinate of the piece that you want to move:
Please enter which coordinate you want this piece to move to
2 6
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香 9
   步步步步步步
                 6
                 5
  步步步步步步步 3
                 2
             飛
香桂銀金王金銀桂香1
Did you want to regret this hand? Or do you want to save the board right here?
To regret type 0, to continue playing type p, to save type s
```

Insert p after a right move -> continue playing

```
Did you want to regret this hand? Or do you want to save the board right here? To regret type 0, to continue playing type p, to save type s p

This is hand no. 3
Player B play!
Please enter the coordinate of the piece that you want to move:
```

Insert 0 after a right move -> regret the hand and enter continuous regretting mode

```
Player 'R' do you want to regret this hand of yours?
This is after hand no. 1
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香9
            角
                8
步步步步步步步步
                6
                5
                4
 步步步步步步步 3
 角
            飛
                2
香桂銀金王金銀桂香 1
Player 'B' do you want to regret this hand of yours?
```

Insert Y at this mode -> regret the hand and continue

```
1 2 3 4 5 6 7 8 9
  桂銀金王金銀桂香 9
飛 角 8
   步步步步步步步
                 6
5
   步步步步步步步 3
香桂銀金王金銀桂香 1
Did you want to regret this hand? Or do you want to save the board right here?
To regret type 0, to continue playing type p, to save type s
Enter continuous regreting mode
If yes type Y, if no type N
This is after hand no. 2
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香 9
飛 角 8
   步步步步步步步
                 6
                 5
  步步步步步步步
                 3
                 2
香桂銀金王金銀桂香 1
Player 'R' do you want to regret this hand of yours?
```

Insert N at this mode -> exit this mode

```
Player 'B' do you want to regret this hand of yours?

N

Exit continuous regretting mode
Do you like to continue playing or save the board?(Type c for continue or s for save)
```

Insert c -> continue to play / Insert s -> save the board

```
Exit continuous regretting mode
Do you like to continue playing or save the board?(Type c for continue or s for save)
c
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香 9
飛 角 8
步步步步步步步 7
6
5
步 4
步步步步步步步 3
角 飛 2
香桂銀金王金銀桂香 1

This is hand no. 2
Player R play!
Please enter the coordinate of the piece that you want to move:
```

Wrong choice – not the right color (left) / no piece on the coordinate(right)

Eat (example) – 角 eat 步

Win (example) - 角 eats 王 (blue wins)

```
Player B play!
Please enter the coordinate of the piece that you want to move:
6 8
Please enter which coordinate you want this piece to move to
5 9
1 2 3 4 5 6 7 8 9
香桂銀金角金銀桂香9
角
步步步步,步步步
                7
6
5
       步
步
 步 步步步步步步 3
                2
香桂銀金王金銀桂香1
Did you want to regret this hand? Or do you want to save the board right here?
To regret type 0, to continue playing type p, to save type s
p
Game Over! Player B Win!
1 2 3 4 5 6 7 8 9
香桂銀金角金銀桂香 9
8
                 7
       步
               步 5
步
                 4
    步步步步步步 3
             飛
香桂銀金王金銀桂香
```

(replay old game)

```
(base) youjinyang@youjinyangdeMacBook-Pro bin % ./shogi -1 test.txt

This is hand No.0
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香 9
飛 角 8
步步步步步步步步 7
6
5
4
步步步步步步步步步 3
角 飛 2
香桂銀金王金銀桂香 1
Enter f for next hand b for previous hand, e to exit
```

Enter f to look the next hand (examples)

```
Enter f for next hand b for previous hand, e to exit f

This is hand No.1
1 2 3 4 5 6 7 8 9

香柱銀金王金銀桂香 9
飛 角 8
步步步步步步步 7
步 4
步步步步步步步 3
角 照 2
香柱銀金王金銀桂香 1
Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit f

Enter f for next hand b for previous hand, e to exit
```

Enter b to look the previous hand (example)

```
Enter f for next hand b for previous hand, e to exit b

This is hand No.1
1 2 3 4 5 6 7 8 9
香桂銀金王金銀桂香 9
飛 角 8
步步步步步步步 7
6
5
步 4
步步步步步步步步 3
角 飛 2
香桂銀金王金銀桂香 1
Enter f for next hand b for previous hand, e to exit
```

Enter e to exit this mode (examples)

```
Enter f for next hand b for previous hand, e to exit e file closing...
finish reading...
(base) youjinyang@youjinyangdeMacBook-Pro bin %
```