

(1) Name and school ID.

B02705010 劉冠宏

(2) How a human player should play with the program?

At first, the program creates two objects which are player and computer. Player will record the user name, game round, p-coin, card set and the number of card player owns(just to make sure that player has five cards.), while computer is responsible for creating 52 cards from the cards instance and distribute 5 cards to player randomly. Every time when a user inputs one to five as bet, the computer will deal the cards and take away corresponding bet from player. After that computer will ask the player whether to keep some of the cards or not. If any card is discarded, computer will call the discardSet(Player, card) function written in the instance of player to get card. At last, the computer will check the player's hand card and give out corresponding prize by it's function checkAndPay().

(3) How you tested the correctness of your program?

First, i make sure the 5 cards that player gets are discard randomly without and repeat or error(By checking the whole deck i created.).Next is to make sure that the function to check player's hand card is error free or not and the way I do is to check the small function which is composing another check function first. For example, in order to check function check_straight_flush, I looked to check_flush and check_straight first. What the major point i think is to start from the basic function and test it function by function instead of blending everything together and debug sector by sector.

(4) The output from three rounds of the game from program.

```
LiudeMacBook-Pro:hw2 kh9543$ make run
java P00Casino
P00Casino Jacks or better, written by b02705010 Kuan-Hung Liu
Please enter your name: Liu
Welcome, Liu.
You have 1000 P-dollars now.
Please enter your bet for round 1 (1-5 or 0 for quitting the game): 5
Your cards are (a) D2 (b) S3 (c) C4 (d) H5 (e) C9
Which cards do you want to keep? (Enter n to discard all): abcd
Your new cards are D2 S3 C4 H5 D10.
You get a others. The payoff is 0.
You have 995 P-dollars now.
Please enter your bet for round 2 (1-5 or 0 for quitting the game): 5
Your cards are (a) H4 (b) S4 (c) C6 (d) HJ (e) SJ
Which cards do you want to keep? (Enter n to discard all): abde
Your new cards are H4 S4 H5 HJ SJ.
You get a two pair. The payoff is 10.
You have 1000 P-dollars now.
Please enter your bet for round 3 (1-5 or 0 for quitting the game): 5
Your cards are (a) C4 (b) S4 (c) H5 (d) H6 (e) S9
Which cards do you want to keep? (Enter n to discard all): ab
Your new cards are C4 S4 D5 DK SA.
You get a others. The payoff is 0.
You have 995 P-dollars now.
Please enter your bet for round 4 (1-5 or 0 for quitting the game): 0
Good bye, Liu. You played for 3 round(s) and have 995 P-dollars now.
LiudeMacBook-Pro:hw2 kh9543$
```