

# Report

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1. How a human player should play with your program?

Ans.

At the beginning of the game, a user should input his or her name, and then enter the P-dollars (1~5) bet for round 1 or 0 for quitting the game.

After that, the computer will generate a new deck, and will show five cards randomly. The user's mission is to decide which cards he or she wants to keep (or he or she can input "none" to show he or she wants to discard all the five cards). Then the computer will discard the cards the player doesn't choose and give the player new cards.

According to the new cards the player get, the computer will choose the best result and automatically, calculating the payoff and the total P-dollars the player still has, and showing the relevant information on the screen.

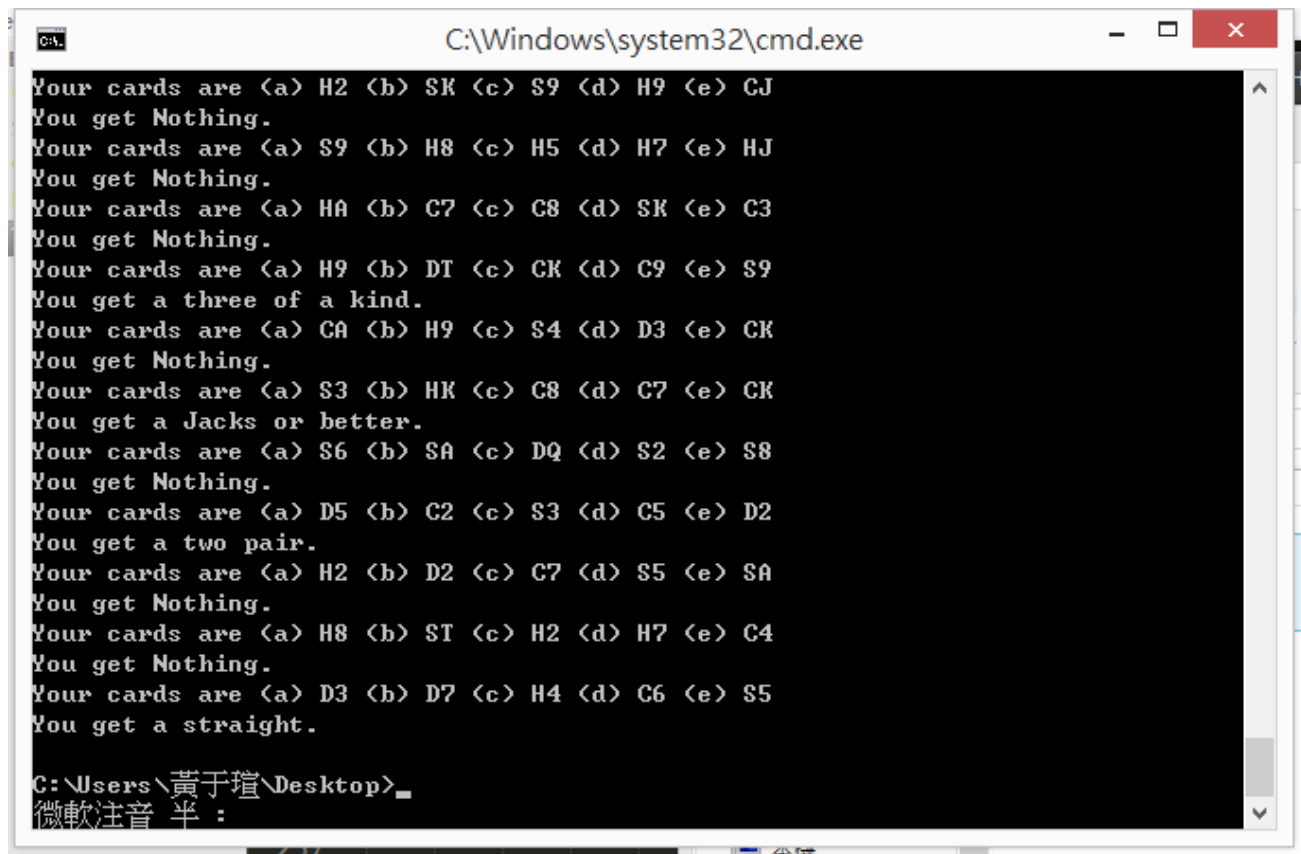
In the end, the player has two options to choose, one is to start the round 2 of the game, and the other is to enter "0" showing that the player wants to quit this game.

2. How you tested the correctness of your program?

Ans.

I supposed the most difficult part is the evaluation of the five cards, so when I finish coding the evaluation part, I write a small program to run 100 cases to check if the results are correct.

The result is on the following：



```
C:\Windows\system32\cmd.exe

Your cards are (a) H2 (b) SK (c) S9 (d) H9 (e) CJ
You get Nothing.
Your cards are (a) S9 (b) H8 (c) H5 (d) H7 (e) HJ
You get Nothing.
Your cards are (a) HA (b) C7 (c) C8 (d) SK (e) C3
You get Nothing.
Your cards are (a) H9 (b) DT (c) CK (d) C9 (e) S9
You get a three of a kind.
Your cards are (a) CA (b) H9 (c) S4 (d) D3 (e) CK
You get Nothing.
Your cards are (a) S3 (b) HK (c) C8 (d) C7 (e) CK
You get a Jacks or better.
Your cards are (a) S6 (b) SA (c) DQ (d) S2 (e) S8
You get Nothing.
Your cards are (a) D5 (b) C2 (c) S3 (d) C5 (e) D2
You get a two pair.
Your cards are (a) H2 (b) D2 (c) C7 (d) S5 (e) SA
You get Nothing.
Your cards are (a) H8 (b) ST (c) H2 (d) H7 (e) C4
You get Nothing.
Your cards are (a) D3 (b) D7 (c) H4 (d) C6 (e) S5
You get a straight.

C:\Users\黃于瑄\Desktop>
微軟注音 半：
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3. The output from three rounds of the game from your program

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C:\Windows\system32\cmd.exe

C:\Users\黃于璿\Desktop\OOP\OOP2015\hw2\src>java P00Casino
P00Casino Jacks or better, written by h03901156
Please enter your name: kyle
Welcome, kyle.
You have 1000 P-dollars now.

Please enter your P-dollar bet for round 1 <1-5 or 0 for quitting the game>: 5
Your cards are <a> SQ <b> D2 <c> S5 <d> C2 <e> S2
Which cards do you want to keep? a
Okay. I will discard <b> D2 <c> S5 <d> C2 <e> S2
Your new cards are <a> SQ <b> H6 <c> DT <d> CK <e> C8
You get Nothing. The payoff is 0.
You have 995 P-dollars now.

Please enter your P-dollar bet for round 2 <1-5 or 0 for quitting the game>: 5
Your cards are <a> S3 <b> CT <c> C7 <d> CJ <e> D4
Which cards do you want to keep? c
Okay. I will discard <a> S3 <b> CT <d> CJ <e> D4
Your new cards are <a> SQ <b> C6 <c> C7 <d> H5 <e> HJ
You get Nothing. The payoff is 0.
You have 990 P-dollars now.

Please enter your P-dollar bet for round 3 <1-5 or 0 for quitting the game>: 5
Your cards are <a> S7 <b> CT <c> S4 <d> S2 <e> C6
Which cards do you want to keep? none
Okay. I will discard <a> S7 <b> CT <c> S4 <d> S2
Your new cards are <a> CJ <b> SJ <c> S3 <d> DK <e> C6
You get a Jacks or better. The payoff is 5.
You have 990 P-dollars now.

Please enter your P-dollar bet for round 4 <1-5 or 0 for quitting the game>: 5
Your cards are <a> CJ <b> DT <c> D5 <d> H3 <e> D9
Which cards do you want to keep? ab
Okay. I will discard <c> D5 <d> H3 <e> D9
Your new cards are <a> CJ <b> DT <c> HQ <d> DA <e> SK
You get a straight. The payoff is 20.
You have 1005 P-dollars now.
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