HOW TO PLAY

At the beginning of the game, players should type their name.

Then players will get 1000 dollars and the computer will ask for the bet for the first round immediately.

At this time, players can type 1 to 5 dollars for a round or any other number to quit the game.

After getting the bet, computer will deal 5 cards for player and ask which players want to keep.

Computer will only keep cards if players type a,b,c,d,e in the string, so if there are no a,b,c,d,e in the string, computer will drop all the cards.

After that, computer will deal new cards and calculate how much money players get and print the rest money players have, and then shuffle and start the next round.

HOW I TEST

I change my classify method in computer class to manually key in different type of five cards, which can make sure that my classify method is correct and the result function give correct money.

And I play the game as a player for more than 40 times to make sure my dealer deal cards correctly and my computer drop cards correctly and player's money is modified correctly.

THREE ROUNDS

```
AppletekiMacBook-Pro-5:hw2 Apple$ make run
java -cp src POOCasino
POOCasino Jacks or better, written by b02705043 Hairy
Please enter your name:jack
Welcome, jack.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or anyother number for quitting the game): 5
Your cards are (a) CA (b) H2 (c) H8 (d) H9 (e) C9
Which cards do you want to keep?(or 'n' to drop all) dcfja
Okay. I will discard (b) H2 (e) C9.
Your new cards are CA D4 H8 H9 DK
You get an others. The payoff is 0.
You have 995 P-dollars now.
Please enter your P-dollar bet for round 2 (1-5 or anyother number for quitting the game): 4
Your cards are (a) D2 (b) S2 (c) S6 (d) S7 (e) C10
Which cards do you want to keep?(or 'n' to drop all) n
Okay. I will discard (a) D2 (b) S2 (c) S6 (d) S7 (e) C10.
Your new cards are DA C4 S9 S10 SQ
You get an others. The payoff is 0.
You have 991 P-dollars now.
Please enter your P-dollar bet for round 3 (1-5 or anyother number for quitting the game): 3
Your cards are (a) DA (b) S3 (c) C5 (d) HK (e) DK
Which cards do you want to keep?(or 'n' to drop all) de
Okay. I will discard (a) DA (b) S3 (c) C5.
Your new cards are S5 S6 H9 HK DK
You get an Jacks or better. The payoff is 3.
You have 991 P-dollars now.
Please enter your P-dollar bet for round 4 (1-5 or anyother number for quitting the game): 0
Good bye, jack. You played for 3 round and have 991 P-dollars now.
```

BONUS POINT

To give every cards a rank and check the straight condition, I use indexOf() in String. It will return an integer so that I don't have to write many if-else but use switch, which make my code more readable.

I write all calculation and print in the computer class to let the POOCasnio main function only have to generate a computer and call the method, which let me call one method at one time. I only call next method after finishing debuging, which make debuging easily and make my main function

clearly. Furthermore, all variables are in computer class, so if I print in computer class, I don't have to call method.

I use "Vector" for generate most of my array, which let me add and delete objects in it easily and let me know the length of every array.

I set many variables as private variable include cards in shuffler class, money and cards in hand in player class …etc. These variable cannot be modified easily by others. When others want to get these variable, I will generate new space on memory and copy the variables to make sure these variable can only be modified by my method.

To classify the type of five cards, I use a classify method which can return an integer so that the result method can use switch to decide the result without if-else everywhere, which make it run faster and more readable.