# FOOP HW2

# —POOCasino—

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1. How to play with my program?

   "make" to compile and will create a new fold name "bin" with compiled code.

   "make run" will start "POOCasino".

   "make clean" will delete the entire "bin" directory.

   In the game, follow the instruction and have fun!

   `Please enter your name:`

   Enter your name such as "Ralph Lee"

   `Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game) :`

   Enter 0-5 such as "1", the program doesn't guarantee the outcome

   if the input is not 0-5

   `Your cards are (a) S6 (b) S10 (c) CQ (d) DQ (e) SA`
   `Which cards do you want to keep?`

   Enter a-e such as "abe", the permutation of abc doesn't matter and the alphabet

   which is not abcde is ignored.

2. How I test the correctness of my program?

   (1)  Write a test program to see if the "CheckHand" class is correct.
        This program can manually give five cards and get hand of the cards.
        The test code is not in src/.

   (2)  Play many times to check if the game works well with drop different amount
        of cards.

3.

```
Please enter your name: Ralph
Welcome, Ralph
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) D4 (b) H4 (c) C10 (d) DQ (e) HA
Which cards do you want to keep? de
Okay. I will discard (a) D4 (b) H4 (c) C10.
Your new cards are D7 D8 DQ HQ HA.
You get a jacks or better hand. The payoff is 5.
You have 1000 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) H5 (b) D6 (c) C7 (d) S10 (e) CA
Which cards do you want to keep? abc
Okay. I will discard (d) S10 (e) CA.
Your new cards are H2 H5 D6 H6 C7.
You get nothing. Keep trying :)
You have 995 P-dollars now
Please enter your P-dollar bet for round 3 (1-5 or 0 for quitting the game) : 3
Your cards are (a) C2 (b) S4 (c) H6 (d) S8 (e) CA
Which cards do you want to keep? e
Okay. I will discard (a) C2 (b) S4 (c) H6 (d) S8.
Your new cards are D3 C5 S6 HK CA.
You get nothing. Keep trying :)
You have 992 P-dollars now
Please enter your P-dollar bet for round 4 (1-5 or 0 for quitting the game) : 0
Good bye, Ralph. You played for 3 round and have 992 P-dollars now.
```

4.     Class arrangement:

Card: implement with comparable interface, represent the basic card.

Shuffler: has a deck of card, and its job is to shuffle and give the cards at the
    top of the deck.

Player: represent the real player. Its job is to get the input from player and
    send it to computer.

Computer: control the whole game elements and print output to the user.

CheckHand: contains all rules of hands (static methods) and the reward
    dollars (static final int). They are static because the rules and reward
    don't change. (Discussed with TA)

POOCasino: maintain the game flow.