

Report (Homework 4)

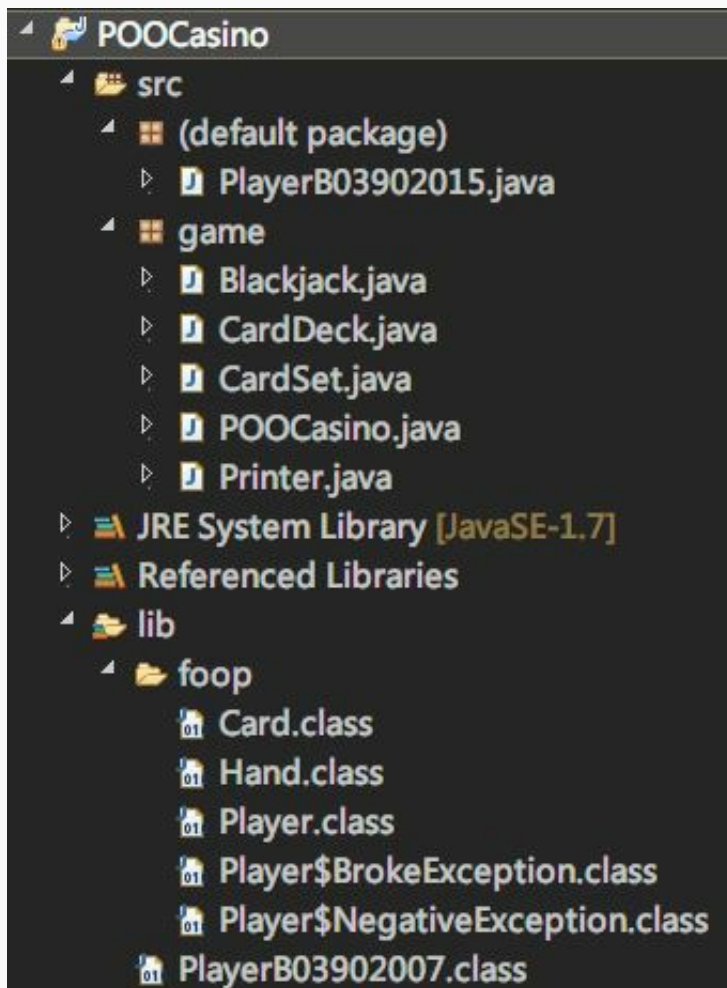
Student ID and Name

- B03902015
- 簡瑋德

The Player's Strategy

- If the player's opened-card is **not** **ACE** , he will buy the insurance.
- The player **never** surrenders, since he considers confidence important.
- The player will double down only when **10** < the value of the current hand < **16**
- If the total value of the current hand is **lower** than **16** , the player will split his current hand.
- The player won't stop hitting until the total value is **more** than **15**
- If the player loses, he will bet **more** in the next round, in order to earn the money back.

Framework



- `PlayerB03902015.java` : The player that I implemented
- `Blackjack.java` : The **Game Instance**, which can be started by calling public method `start()`
- `CardDeck.java` : It represents a deck of cards. A random card is available with `getRandCard()`
- `CardSet.java` : It maintains the information of a hand.
- `POOCasion.java` : The start point. It will deal with the `args` and start the `Blackjack` correctly.
- `Printer.java` : It consists of some static methods, which are responsible for output messages.

The Result of the Duel

- Classmate's Name and ID: 鄭德馨 B03902007
- Rounds = `100`
- Initial Chips = `1000`

```

<System> Round 100 Start!
Player1's Bet: 24      Player2's Bet: 2      Player3's Bet: 0      Player4's Bet: 1
<System> Face-Up Cards Assigned
Dealer's Hand: (CLUB)4
Player1's Hand: (HEART)2
Player2's Hand: (HEART)A
Player3's Hand: (DIAMOND)3
Player4's Hand: (SPADE)5
<System> Player4 Doubles Down
<System> Current Hands
Player1's Bet: 24
Player1's Hand: (HEART)2      (DIAMOND)8
Player2's Bet: 2
Player2's Hand: (HEART)A      (HEART)8
Player3's Bet: 0
Player3's Hand: (DIAMOND)3      (HEART)7
Player4's Bet: 2
Player4's Hand: (SPADE)5      (CLUB)2      (DIAMOND)10
<System> Result Hands
Dealer's Hand: (CLUB)4      (SPADE)Q      (HEART)10
Dealer's Total Value: 24
Player1's Hand: (HEART)2      (DIAMOND)8      (SPADE)3      (CLUB)A      (HEART)4
Player1's Total Value: 18
Player2's Hand: (HEART)A      (HEART)8
Player2's Total Value: 19
Player3's Hand: (DIAMOND)3      (HEART)7      (HEART)5      (DIAMOND)A
Player3's Total Value: 16
Player4's Hand: (SPADE)5      (CLUB)2      (DIAMOND)10
Player4's Total Value: 17
B03902015: 2455.0 Chips
B03902007: 1016 Chips
B03902015: 72.0 Chips
B03902007: 979 Chips
r - | ● | - | 19:55:15 | - | b03902015 @ linux3 | - | ~/foop/hw4 | - (git)- (master *)- 
- | █

```

Bonus

- I did nothing worth the bonus points.
- However, I tried my best to make my codes readable, including adding comments on every section.