

# Foop Homework2 Report

## Name and ID

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## Compile and Run

- Compile: **make**
- Run: **make run**
- Clear: **make clean**

## How to Play

### Introduction

This is a single-player video poker game called **POOCasino**. The game is played with P-dollars-virtual money, and you will be given 1000 P-dollars before the game starts. In every round, you can choose to bet 1 to 5 dollars. The payoff has something to do with your best hand of the final 5 cards that you own at the end of each round.

### Player Name

The computer will ask the player to enter their name before the game starts. Spaces are allowed, but the name should be finished in 1 line.

### The Amount of Money to Bet in Each Round

The computer will ask the player to enter the amount of money to bet in each round. The input should be a single integer from 1 to 5. However, for those who want to quit the game, 0 would be the input.

### How to Discard the Cards

You will get 5 cards after you finish setting the amount of money you want to bet in this round. You are allowed to change the cards once. The computer will ask you to choose the cards you want to keep. The 5 specific cards are labeled with **a**, **b**, **c**, **d** and **e**. You should enter a string containing these characters in a single line. **acd** and **adc** would have the same result, denoting keeping only the 3 cards labeled with **a**, **c** and **d**. If you want to keep all the 5 cards, **none** should be your response.

## Test of Correctness

I once modified the **game.Shuffler** to cancel the Random Setting. In this way, the computer is able to give the specific cards to the player. Thus, I can test the correctness of payoff of each hand.

## Sample Input/Output

*POOCasino Jacks or better, written by b03902015 Der Chien*

*Please enter your name:* **Cute Elise**

Welcome, Cute Elise.

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) H4 (b) S2 (c) D3 (d) D2 (e) S6

Which cards do you want to keep? bd

Okay. I will discard (a) H4 (c) D3 (e) S6.

Your new cards are C3 S2 D6 D2 H2.

You get a three of a kind hand. The payoff is 15.

You have 1010 P-dollars now.

Please enter your P-dollar bet for round 2 (1-5 or 0 for quitting the game): 4

Your cards are (a) H9 (b) S2 (c) S5 (d) H4 (e) D9

Which cards do you want to keep? ea

Okay. I will discard (b) S2 (c) S5 (d) H4.

Your new cards are H9 S7 S10 S3 D9.

You get nothing. The payoff is 0.

You have 1006 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) S9 (b) H4 (c) HJ (d) S6 (e) S2

Which cards do you want to keep? none

Okay. I will discard (a) S9 (b) H4 (c) HJ (d) S6 (e) S2.

Your new cards are H5 CK CA SK C2.

You get a Jacks or better hand. The payoff is 3.

You have 1006 P-dollars now.

Please enter your P-dollar bet for round 4 (1-5 or 0 for quitting the game): 0

Good bye, Cute Elise. You played for 3 rounds and have 1006 P-dollars now.

## Bonus

I did not implement any extra features. However, I focus on making my source code readable (for example, putting some comments and annotation), which I consider as the key point in this homework.