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(1) Strategy:

- Buy insurance when my open card's value is greater than 7.
- Never surrender
- Double when the value of Hand is between 9 and 13.
- Split when the value of the Card is between 2 and 8.
- Hit when the value of my hand is smaller than 17.
- The amount of bet equals chips/5

(2) Classes:

- PlayerB03202047: Simple AI to make decision.
- POOCasino: POOCasino holds the things that a Casino should do. The class helps me to judge the duel. And also it "acts" like a real casino, including deal cards and Count the value of the dealer's hand and the player's hand.

(3) Result of Duel

Classmate Name: 李漪廷 School ID: B03202017

Result:

Welcome to POOCasino. Enjoy BlackJack!

How much do you want to bet?

Player1: I want to bet 200

Player2: 100

Player3: I want to bet 200

Player4: 100

Deal Cards

Dealer: C4

Player1: S8

Player2: D3

Player3: H4

Player4: H6

Do you want to surrender?

Player1: No surrender.

Player2: No surrender.

Player3: No surrender.

Player4: No surrender.

Player1: S8 H5

Player2: D3 HQ

Player3: H4 DA

Player4: H6 D4

Do you want to double?

Player1: Double

Player2: No Double

Player3: No Double

Player4: Double

Player1: S8 H5 H10 value: 23

Player2: D3 HQ value: 13

Player3: H4 DA S9 SK value: 24

Player3 is busted.

Player4: H6 D4 CJ value: 20

Dealer: C4 S3 D6 DK value: 23

Dealer is busted.
Player3: busted
Player1: 1400
Player2: 1100
Player3: 800
Player4: 1200
How much do you want to bet?
Player1: I want to bet 280
Player2: 100
Player3: I want to bet 160
Player4: 100
Deal Cards
Dealer: SA
Player1: HK
Player2: H4
Player3: C10
Player4: C2
Dealer has an Ace
Do you want to buy insurance?
Player1: Buy insurance
Player2: No insurance
Player3: Buy insurance
Player4: No insurance

Do you want to surrender?
Player1: No surrender.
Player2: No surrender.
Player3: No surrender.
Player4: No surrender.

Player1: HK C6
Player2: H4 S4
Player3: C10 S7
Player4: C2 HA
Do you want to split?
Player2: I don't want to split

Do you want to double?
Player1: No Double
Player2: No Double
Player3: No Double
Player4: No Double
Player1: HK C6 D9 value: 25
Player1 is busted.
Player2: H4 S4 H3 value: 11
Player3: C10 S7 value: 17
Player4: C2 HA H3 D5 value: 21
Dealer: SA D4 S3 value: 18
Player1: busted
Player2: Dealer wins!
Player3: Dealer wins!
Player4: Player4 wins!
Player1: 1120
Player2: 1000
Player3: 640
Player4: 1300
How much do you want to bet?
Player1: I want to bet 224
Player2: 100
Player3: I want to bet 128
Player4: 100
Deal Cards
Dealer: C3
Player1: D8
Player2: DJ
Player3: H6
Player4: C7

Do you want to surrender?

Player1: No surrender.
Player2: No surrender.
Player3: No surrender.
Player4: No surrender.

Player1: D8 D10
Player2: DJ SJ
Player3: H6 H10
Player4: C7 S10
Do you want to split?
Player2: I don't want to split

Do you want to double?
Player1: No Double
Player2: No Double
Player3: No Double
Player4: No Double
Player1: D8 D10 value: 18
Player2: DJ SJ value: 20
Player3: H6 H10 SQ value: 26
Player3 is busted.
Player4: C7 S10 value: 17
Dealer: C3 S2 HJ C9 value: 24

Dealer is busted.
Player3: busted
Player1: 1344
Player2: 1100
Player3: 512
Player4: 1400
rank 1: Player4
rank 2: Player1
rank 3: Player2
rank 4: Player3
(round: 3 chip:1000)

How much do you want to bet?
Player1: I want to bet 6480
Player2: 600
Player3: I want to bet 928
Player4: 600
Deal Cards
Dealer: DK
Player1: D8
Player2: SK
Player3: HA
Player4: DA

Do you want to surrender?
Player1: No surrender.
Player2: No surrender.
Player3: No surrender.
Player4: No surrender.

Player1: D8 C4
Player2: SK C8
Player3: HA HQ
Player4: DA SA
Do you want to split?
Player4: I want to split

Do you want to double?
Player1: Double
Player2: No Double
Player3: No Double
Player4: No Double
Player1: D8 C4 HJ value: 22
Player2: SK C8 value: 18
Player3: HA HQ value: 21

Player4: DA SA SJ value: 22
 Player4 is busted.
 Player4: DJ DJ value: 20
 Dealer: DK SK value: 20
 Player1: Player1 wins!
 Player2: Dealer wins!
 Player3: Player3 wins! BlackJack
 Player4: busted
 Player4 splittedHand : Push
 Player1: 45362
 Player2: 101500
 Player3: 6036
 Player4: 98800
 How much do you want to bet?
 Player1: I want to bet 10886
 Player2: 600
 Player3: I want to bet 1448
 Player4: 600
 Deal Cards
 Dealer: H6
 Player1: S9
 Player2: H5
 Player3: DQ
 Player4: S4

Do you want to surrender?
 Player1: No surrender.
 Player2: No surrender.
 Player3: No surrender.
 Player4: No surrender.

Player1: S9 S5
 Player2: H5 CQ
 Player3: DQ D9
 Player4: S4 DJ
 Do you want to double?
 Player1: No Double
 Player2: No Double
 Player3: No Double
 Player4: No Double
 Player1: S9 S5 C7 value: 21
 Player2: H5 CQ value: 15
 Player3: DQ D9 value: 19
 Player4: S4 DJ value: 14
 Dealer: H6 D5 H9 value: 20
 Player1: Player1 wins!
 Player2: Dealer wins!
 Player3: Dealer wins!
 Player4: Dealer wins!
 Player1: 65320
 Player2: 100300
 Player3: 5795
 Player4: 99400

rank 1: Player2
 rank 2: Player4
 rank 3: Player1
 rank 4: Player3
 (round: 100 chip:100000)

Experience:

It seems that my classmate players are much good players than mine, although I think the luck is the most important matter. It is obvious that my bet is larger than my classmates. Player hand is very often to get busted, hence it is very easy to lose huge amount of money. It's interesting experience to have duel with classmates, I

hope my AI player can be better in winter vacation!(after final projects....)

Bonus:

1. the screen will show the "status" of the Hand. Including blackjack, get insurance, busted, and also the status of splitted Hand.
2. The game will be shut down so that if someone is broken, the person will no longer stay in the Casino.
3. In the end of the game, the screen will show the rank of the players, so that People can clearly know who is the Best!.