Documentation of Blackjack in Chenhui's Casino Chenhui Zhai

1. Environment

The code can run at least under:

ruby 1.9.3p125 (2012-02-16 revision 34643) [x86_64-darwin11.0.0] ruby 1.8.7 (2010-01-10 patchlevel 249) [universal-darwin11.0] ruby 1.8.6 (2010-09-02 patchlevel 420) [i686-darwin11.0.0]

The code base contains:

deck.rb, dealingmachine.rb, dealer.rb, player.rb, game.rb, aux.rb and main.rb

Instructions:

Type "ruby main.rb" from command line and you can enter my casino for the blackjack!

2. Rules

a. 3:2 Blackjack

Besides the four basic player's decisions (hit, stand, double, split), I add 3:2 Blackjack rule, meaning that a player can get 3 dollors for 2 bets if the initial two cards of his hand is blackjack (no blackjack after split)

b. Unlimited Split

Some casinos have restrictions on post-split. A limit of 3 split means that a player can have at most 4 hands. This rule differs from casinos to casinos. In my casino, there's no limit on Split. If you are lucky enough to get the same value card from the dealing machine all the time, which I doubt, you can split to infinity. (In my test, a player once has 5 hands at most)

c. Hole Card

I use "Hole Card" rule, meaning that you can only see dealer's 1 card value.

d. No Insurance and No Surrender

e. 8 players at most

The upper limit also differs between different casinos. I select 8 because it's a lucky number.

3. Game Example

The following is a sample output of a game between 1 player and the dealer. The player only bets 100 for 1 round, stands and then quits. (In my casino, you can quit at the end of each round or be kicked out if you run out of money!)

```
Chenhuis-MacBook-Pro:blackjack chenhuizhai$ ruby main.rb
How many players?(8 at most)
Please input an INTEGER
Dealer's visible card is: diamond4
Hello Player #1
Your Balance is: 1000
Please input an INTEGER as your bets for this round
You bet 100 in this round
hand #1 contains: club13 spade12
hand #1 value: 20
bets for hand #1: 100
please input INTEGER for your choice:
1--hit; 2--stand; 3--double; 4--split
                          . Game Example
                           The following is a sample output of a
hand #1 contains: club13 spade12
hand #1 value: 20
bets for hand #1: 100
                              esign Pattern and Code Snip
hand #1 finished
dealer's hand contains: club1 diamond4 club7 club12
value: 22 Busted!!
*********
Player #1 win: 100 balance: 1100
Hello Player #1
Sit? or Quit?
1--sit; 2--quit
See you Player #1
GAME OVER!!
Chenhuis-MacBook-Pro:blackjack chenhuizhai$
```