

Documentation of Blackjack in Chenhui's Casino

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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

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

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!)

[illegible]