

Blackjack!!

In this lab you will be simulating a game of blackjack

Exercises

It's Blackjack Time!! We'll be expanding our understanding of methods by coding a text-based blackjack game. BUUUUUTTTTT, coding all the rules is a bit complicated. You can do that if you want, but here are some alternate rules. The game should run until the player is finished.

Modified Rules:

- Use the random number generator draw cards from 1 to 11 inclusively. We aren't going to simulate how aces are 11 or 1. We aren't simulating how there are more face cards than anything else. And we are not keeping track of the cards.
- Because of the different values, what happens if you're dealt two 11's to start the hand? This is not possible in a real game; you need to account for this happening

If you're up for it...

Create the complete game. Make 10's come up 3 times more than anything else. Allow for aces to switch between 11 and 1, and anything else we took out. Also, you could add a betting aspect to it.

Basic Flow:

- 1. Announce the game
- 2. Draw 2 cards for the player and 1 for the computer. Print them to the screen
- 3. Keep asking the player "hit or stay" until they either stay or bust (over 21 points).
- 4. Draw a second card for the computer.
- 5. Keep drawing cards for the computer until they reach 18 or more points or are tied/higher than the player.
- 6. Display the results
- 7. Ask if they want to play again

Example Run on Next Page



Continue...

Example Run:

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BLACK - JACK!
Come try your luck and
mayby take home a buck!
Your Turn!!
   Your Hand: 4 11 = 15
   Comp Hand: 1 = 1
   Hit or Stay? h
   Your Hand: 4 \ 11 \ 10 = 25
   Comp Hand: 1 = 1
Computer's Turn
   Your Hand: 4 11 10 = 25
   Comp Hand: 1 7 = 8
You busted...Computer Wins...
Play again? (Y or N): y
Your Turn!!
   Your Hand: 9 6 = 15
   Comp Hand: 5 = 5
  Hit or Stay? s
Computer's Turn
   Your Hand: 96 = 15
   Comp Hand: 5 \ 10 = 15
Play again? (Y or N): y
Your Turn!!
   Your Hand: 16 = 7
   Comp Hand: 6 = 6
  Hit or Stay? h
   Your Hand: 1 \ 6 \ 2 = 9
   Comp Hand: 6 = 6
   Hit or Stay? hit
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Welcome Printout

Player's Turn

Computer's Turn

Print Winner & Reset Game

Your Hand: 1 6 2 2 = 11

Comp Hand: 6 = 6
Hit or Stay? hit

Your Hand: 1 6 2 2 8 = 19

Comp Hand: 6 = 6
Hit or Stay? stay

Computer's Turn

Your Hand: 1 6 2 2 8 = 19 Comp Hand: 6 10 10 = 26

Computer Busted...You Win!!

Play again? (Y or N): huh?

I didn't regcognize that answer.

Play again? (Y or N): nope

It's been fun!
Come back soon!