

Blackjack / 21 Rules

1. Deck

- a. A standard 52-card deck will be used
- b. The cards 2, 3, 4, 5, 6, 7, 8, 9, and 10 retain their numerical value
- c. The cards J, Q, and K have a numerical value of 10
- d. The card A can have a numerical value of 1 or 11

2. Players

- a. There will be four (4) players
- b. There will be one (1) dealer
- c. Each player starts with P10.00
- d. Each player bets P1.00 for each round
- e. Only players with money are eligible to play

3. Game

- a. The goal of the game is to have cards on hand that have a total value of as close to but not exceeding 21
- b. If there is at least one (1) player who is still eligible to play, a round can be started
- c. Each player will receive two (2) cards from the dealer; these cards are dealt facing up (i.e., seen by all other players)
- d. The dealer draws two (2) cards with the first card facing up and the second card facing down (i.e., not seen by other players)
- e. All players with exactly two cards having a total value of 21 (i.e., have a Blackjack) automatically win in the current round
 - i. If the dealer has a Blackjack, the round ends with all players without a Blackjack as losers and those with a Blackjack as being tied
- f. Each player, in rotating order, is asked if they would want to draw another facing-up card
 - i. HIT means the player wants to draw another card
 - ii. STAND means the player wants to stop drawing cards for the round
 - iii. If the total value of a player's cards exceeds 21, the player is busted for the current round (i.e., the player loses and stops playing for the current round)

- iv. This continues repeatedly until all the players still in the current round are satisfied with their hands
- g. The dealer draws cards one-by-one until the total value of the dealer's cards is 17 or higher (dealer draw phase)
- h. Payout is done after each round in accordance to the rules below
- i. Rounds are played until no player is eligible to play

4. Payout

- a. Only losing players (i.e., non-winning and non-tied) lose the amount they have bet for the current round
- b. If the dealer does not have a Blackjack, all players with a Blackjack win P1.50
- c. If the dealer gets busted after the dealer draw phase, all non-busted players will win P1.00 each
- d. If the dealer is not busted after the dealer draw phase, all non-busted players with a higher total than what the dealer has will win P1.00 each

This activity will be done in pairs. Save your code as **<surname1>_<surname2>.cpp**.