

Poker Hand

You are going to program and determine the Poker Hand Ranking.

Study and review the Case Study: Deck of Cards on page 256 which was presented in the class. Do not copy the code on page 257 you will be given a starting code that you can use. The first thing to do is you put your name and replace the string "YourNameHere". A lot of declaration and initialization is done for you, then you add codes of your own to achieve the objective of the project. If you do not know the poker ranking study the ranking at the end of this assignment.

Objective: Group the 52 cards into 10 groups of five card from index 0. Display their value like 5 of hearts, K of spades etc. Then determine the **poker hand ranking** example Royal Flush, Two pair, Four of a kind,etc. see the sample report below.

You will NOT generate or shuffle the deck of card you are given the 52 numbers to represent the pre-shuffle deck of cards. You will read in the 52 numbers as you can see the first few lines of the given starter code.

The given test data (52 numbers) are good for 9 ranks does not include Royal flush and the special straight for bonus. You must come up with your own test data to check all possible poker rank.

Generated report : (next page for a sample run result)

Submitted by : yourNameHere

enter your 52 number : 10 36 23 49 6 1 16 2 3 4 28 15 11 24 12 9 21 34 8 5 7 20 33 14 27 40 0 17 29 41
44 43 45 46 47 37 25 22 35 19 26 30 32 31 38 50 51 39 42 48 13 18

Hand # 1

Card number 10 : J of Spades
Card number 36 : J of Clubs
Card number 23 : J of Hearts
Card number 49 : J of Diamonds
Card number 6 : 7 of Spades

***** Four of a kind

Hand # 2

Card number 1 : 2 of Spades
Card number 16 : 4 of Hearts
Card number 2 : 3 of Spades
Card number 3 : 4 of Spades
Card number 4 : 5 of Spades

***** Pair

Hand # 3

Card number 28 : 3 of Clubs
Card number 15 : 3 of Hearts
Card number 11 : Q of Spades
Card number 24 : Q of Hearts
Card number 12 : K of Spades

***** Two pair

Hand # 4

Card number 9 : 10 of Spades
Card number 21 : 9 of Hearts
Card number 34 : 9 of Clubs
Card number 8 : 9 of Spades
Card number 5 : 6 of Spades

***** Three of a kind

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Etc up to Hand # 10

Scoring:

Generate 10 hands correctly - 40 pts.

There are 10 poker hands - 6 pts each.

Bonus: two kind of straight (A to 5 and 10 to A) - 10 pts.

Extract from : <https://www.cardplayer.com/rules-of-poker/hand-rankings>

Poker hands from highest to lowest

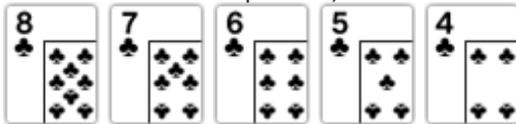
1. Royal flush

A, K, Q, J, 10, all the same suit.



2. Straight flush

Five cards in a sequence, all in the same suit.



3. Four of a kind

All four cards of the same rank.



4. Full house

Three of a kind with a pair.



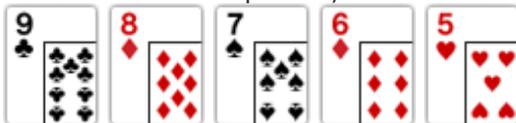
5. Flush

Any five cards of the same suit, but not in a sequence.



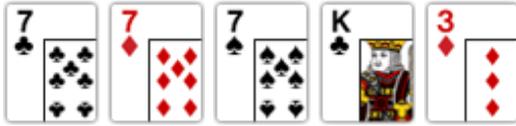
6. Straight

Five cards in a sequence, but not of the same suit.



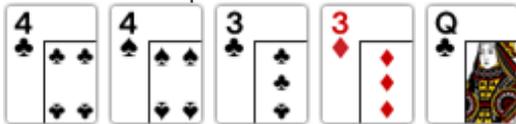
7. Three of a kind

Three cards of the same rank.



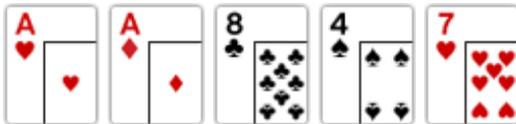
8. Two pair

Two different pairs.



9. Pair

Two cards of the same rank.



10. High Card

When you haven't made any of the hands above, the highest card plays.

In the example below, the jack plays as the highest card.

