

Poker Project (Due Date March 17th Midnight)

In this project you will be dealing and comparing poker hands. A poker hand consists of 5 cards, we aren't playing any specific variation. When dealing a hand you will deal 5 cards. The most hands a deck of cards can deal is 10 as there are 52 cards in a deck. For those of you unfamiliar with poker, a listing of hands and their rank is located [here](#).

We will simply deal hands from a deck and then compare them to see what the highest hand is. You will note that the classes for this project are minimally filled out. It is up to you as students to figure out the missing pieces that you will need to fill to complete the task.

Implementation

The Classes

Poker

This class will represent our "game" of poker, there is one required function, it takes a list of Hands and returns the highest hand. There is only one function in the class, however feel free to add as many as needed to accomplish the task.

Card

This class represents a single card, you will note that I defined the enums for both suits and values. You will need to add anything you need in order to effectively use the card for the rest of the assignment. Constructors, data members, equals, hashCode are all possible functions that will need to be implemented.

Deck

This class represents a deck of cards. There is a single function here that you are required to implement. You must be able to deal a number of poker hands. Each poker hand consists of 5 cards. You will return a list of hands that can then be used by the Poker class to find the highest hand.

Hand

This class represents a hand and consists of 5 cards. You will notice I defined an enum for all types of hands as well as an equals function. I am requiring for this class that you implement the equals method for testing.

Final Goal

Ultimately you need to build these classes to evaluate two 5 card hands. Ranking of hands can be found at this [website](#). When two hands are of the same rank, the one with the higher value wins. In order to create the hands, you will have to build a deck, that deck will have to be able to deal multiple hands. When those hands are passed to the Poker class, it should return the highest hand.