In [ ]:
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### Template
import random

class Card:
    def __init__(self, value, suite):
        self.value = value
        self.suite = suite

    def __str__(self):
        return f"{self.value} of {self.suite}"

    def __eq__(self, other):
        """Check if two cards are the same"""
        # -- YOUR CODE HERE --
        #compare value then compare suite
        #if(self.value==other.value and self.suite==other.suite):
            #then they are equal
        return(self.value==other.value and self.suite==other.suite)


class CardSet:
    def __init__(self):
        self.cards = []

    def view(self):
        for card in self.cards:
            print(card)

    def add_cards(self, cards):
        """Add cards to your set"""
        # -- YOUR CODE HERE --
        #use append
        self.cards.append(cards)

class Deck(CardSet):
    def __init__(self):
        """Initialize the 52-card set. Start from 1-10, then Jack, Queen, King, then by suite: clubs, spades, hearts, diamonds"""
        cards = []
        # -- YOUR CODE HERE --
        #declare list of values
        value=['1', '2', '3', '4', '5', '6', '7', '8', '9','10', 'Jack', 'Queen', 'King']
        suite=["clubs","spades","hearts","diamonds"]

        #generate list of 52 cards
        #declare empty list
        cards=[]
        card_count=1
        for j in suite:
            for i in value:

                #declare the name variable
                name="Card"+str(card_count)

                #iterate the card counter
                card_count+=1

                #use locals() function to make dynamic variable names instead of manually creating 52 card objects
                locals()[name]=Card(i,j)

                #add to the list
                cards.append(locals()[name])

                #
                #remarks:
                #I realize now that I did not need to use variable names to add the Card Object to the list
                #For now I will keep it since it does not break any of the functions
                #


        self.cards = cards

    def count_cards(self):
        print("Cards Left: "+ str(len(self.cards)))

    def shuffle(self, seed=None):
        random.seed(seed)
        random.shuffle(self.cards)

    def peek(self, number=5):
        """Show the top n cards of the stack. This is analogous to getting the last n cards then reversing it."""
        # -- YOUR CODE HERE --

        #Recall: "Top of the cards" refers to the end of the list
        #Therefore "Top card"=cards[-1]

        #add if-case for when cards are less than 5
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        if(len(self.cards)<5):
            number=len(self.cards)


        #initialize counter and list
        p_count=0
        peak=[]

        #while loop keeps count of how many cards is to be peaked
        while p_count<number:
            p_count+=1

            #the end of the list will be appended to peak[]
            #iterates backwards up to n times
            peak.append(self.cards[p_count*-1])

        #print the top n cards
        for i in peak: print(i)

        #return peak list
        return(peak)



    def draw(self, cardset, number=5):
        """Transfer the top n cards of the stack to your cardset."""
        # -- YOUR CODE HERE --
        #Solution: use peek solution, but append() and remove() from the list as necessary

        #add if-case for when cards are less than 5
        if(len(self.cards)<5):
            number=len(self.cards)

        #initialize counter and list
        p_count=0

        #while loop keeps count of how many cards is to be peaked
        while p_count<number:
            p_count+=1

            #the end of the list will be added using object function
            #because of removal, index [-1] can simply be repeated every loop
            cardset.add_cards(self.cards.pop(-1))



    def add_cards(self):
        pass

if __name__ == "__main__":
    seed, hand, peek = input().split(",")

    myDeck = Deck()
    handA = CardSet()
    handB = CardSet()

    myDeck.shuffle(int(seed))

    for x in range(1,3):
        print(f"\nRound {x}:")

        myDeck.draw(handA, int(hand))
        myDeck.draw(handB, int(hand))

        print("Hand A: ")
        handA.view()
        print("Hand B: ")
        handB.view()

        myDeck.count_cards()
        if(x == 1):
            print(f"\n{peek} Cards at the top: ")
            myDeck.peek(int(peek))
```