```
public class Deck {
      private Card[] deck;
      public Deck(){
             initDeck();
      }
      //Initializes the deck of cards with appropriate suite and value
      public void initDeck(){
      }
      //Randomizes the current deck. Think of various algorithms to do this.
      //Pefect shuffle?
      public void shuffle(){
      }
      // will deal numCards number of cards from the deck and update deck accordingly
      public void deal(int numCards){
      }
      //Should display the current deck using Card's to String method
      public void displayDeck(){
      }
}
```

```
package arrays;
^{st} Make sure to save as UTF-8 by adding the following comment to all documents:
* //♠
* Press save, and when the dialog pops up, press save as UTF-8.
* You need this for documents that use or reference other documents that use special <u>unicode</u> characters.
public class Card {
        //Data Memebers
        private String suit;
        private int faceValue;
        public Card(){
                 suit = "Joker";
                 faceValue =0;
        //overloaded
        public Card(String s, int v){
                 suit = s;
                 faceValue = v;
        // getters
        public int getFaceValue(){
                 return faceValue;
        public String getSuit(){
                 return suit;
        public boolean equals(Card c){
                 return ( this.faceValue == c.getFaceValue()) &&
                                          ( this.suit.equals(c.getSuit()));
        }
        public boolean sameSuit(Card c){
                 return (this.suit.equals(c.getSuit()));
        public boolean sameValue(Card c){
                 return (this.faceValue == c.getFaceValue());
        public String toString(){
    String fv="----\n ";
                 switch(faceValue){
                 case 11:
                          fv += " J";
                         break;
                 case 12:
                         fv += " Q";
                         break;
                 case 13:
                          fv += " K";
                         break;
                 case 1:
                          fv += " A";
                         break;
                 case 10:
                         fv += "10";
                         break;
                 default :
                          fv += " "+faceValue +"";
                 fv = fv + "";
                 //
                 if(suit.equals("clubs")){
                         fv+="\u2660";
                 }else if(suit.equals("diamonds")){
                         fv+= "\u2666";
                 }else if(suit.equals("hearts")){
                          fv+= "\u2665";
                 }else if(suit.equals("spades")){
                         fv+= "\u2663";
                 }else{
                         fv+=null;
                 return fv;
        }
}
```