

COMP2396B Tutorial 4 Exercise

Convert the following array program into ArrayList version:

```
public class Card_o {

    public static void main(String[] args) {
        int[] deck = new int[52];
        String [] suits= {"Spade","Heart","Diamond","Club"};
        // Initialize cards
        for(int i=0;i<deck.length;i++) {
            deck[i]=i;
        }
        // Shuffle the cards.
        for(int i=0;i<deck.length;i++) {
            int index=(int)(Math.random()*deck.length);
            int temp=deck[i];
            deck[i]=deck[index];
            deck[index]=temp;
        }
        // Display the card(s) that is heart from the first five cards.
        for(int i=0;i<5;i++) {
            String suit=suits[deck[i]/13];
            if(suit.equals("Heart")) {
                System.out.println("Card number "+deck[i]+" is "+suit);
            }
        }
    }
}
```

```
}
```

The above exercise is modified from the following references:

- “Introduction to Java Programming: Comprehensive Version” (8th edition) by Y. Daniel Liang
- EIE3320 “Object-Oriented Design and Programming” by Lawrence Cheung