

# 课后作业<sup>1</sup>

课程名称	Java 应用与开发	开课学期	2018 年秋季学期
班 级	17 政治学与行政学	姓 名	陈扬
学 号	17150011001	联系方式	15610572362
完成情况	(不要填)		

## 简答题

1. 题目

2. 题目

## 编程题

1. 题目

Code: Hello.java

```
//package ouc.cs.course.java.test.poke;
```

```
import java.util.Random;
```

```
import java.util.*;
```

```
public class Poke {
```

```
    private static String[] suit = {"Heart", "Spade", "Diamond", "Club"};
```

```
    private static String[] face = {"A", "2", "3", "4", "5", "6", "7", "8", "9", "10", "J", "Q", "K"};
```

```
    public static String[] createCard(int number){
```

```
        String[] cards = new String[number*52];
```

```
        for(int i=0; i<number; i++){
```

```
            for(int j=0; j<52; j++){
```

```
                cards[i*52+j] = suit[((i*52+j)/13)%4] +face[(i*52+j)%13];
```

```
            }
```

```
        }
```

```
        return cards;
```

```
    }
```

---

<sup>1</sup>注意事项（仔细阅读）：电子版提交到系统，无需纸质版（课后开放提交入口，会通过微信通知大家）；作业文件命名格式为“2018-autumn-hw-学号(id)-姓名(name)-完成时间（例如 20180918）.docx”；不能更改作业报告格式和删除格式中的文字，注意实验报告的撰写，注重格式，注意笔误；注意实验报告的命名及撰写也作为考核的一部分。

```

public static void display(String[] cards){
    for(int i=0; i<cards.length; i++){
        System.out.print(cards[i]+" ");
        if((i+1) % 13 == 0)
            System.out.println();
    }
}

public static void shuffle(String[] cards){
    Random rand = new Random();
    int num = 0;
    for(int i=0; i<cards.length; i++){
        num =rand.nextInt(cards.length);
        String temp = cards[i];
        cards[i] = cards[num];
        cards[num] = temp;
    }
}

public static void distribute(String[] cards, int player){
    String[][] cardsOfPlayer = new String[player][cards.length/player+1];
    int index = 0;
    for(int i=0; i<cards.length; i++){
        cardsOfPlayer[i%player][index] = cards[i];
        if((i+1)%player==0)
            index++;
    }
    for(int i=0; i<player; i++){
        System.out.println("玩家"+(i+1)+":");
        int sum=0;
        for(int j=0; j<cardsOfPlayer[i].length; j++){
            if(cardsOfPlayer[i][j] != null){
                System.out.print(cardsOfPlayer[i][j]+" ");
                sum++;
            }
        }
        System.out.println("共"+sum+"张牌");
    }
}

public static void main(String[] args) {
    System.out.println("该扑克游戏需要几付扑克牌?");
    Scanner sc = new Scanner(System.in);
    int num = sc.nextInt();
    String[] cards = Poke.createCard(num);
    System.out.println("该扑克游戏有几个玩家?");
}

```

```

Scanner sp = new Scanner(System.in);
int per = sp.nextInt();
System.out.println("\n 显示所有的牌:");
Poke.display(cards);
Poke.shuffle(cards);
System.out.println("\n 显示分配给每个人的牌:");
Poke.distribute(cards, per);
}
}

```

## 2. 题目

结果

该扑克游戏需要几付扑克牌?

1

该扑克游戏有几个玩家?

4

显示所有的牌:

HeartA Heart2 Heart3 Heart4 Heart5 Heart6 Heart7 Heart8 Heart9 Heart10  
HeartJ HeartQ HeartK

SpadeA Spade2 Spade3 Spade4 Spade5 Spade6 Spade7 Spade8 Spade9 Spade  
10 SpadeJ SpadeQ SpadeK

DiamondA Diamond2 Diamond3 Diamond4 Diamond5 Diamond6 Diamond7 Dia  
mond8 Diamond9 Diamond10 DiamondJ DiamondQ DiamondK

ClubA Club2 Club3 Club4 Club5 Club6 Club7 Club8 Club9 Club10 ClubJ  
ClubQ ClubK

显示分配给每个人的牌:

玩家 1:

Diamond8 Heart10 Spade6 Spade4 DiamondQ Spade9 SpadeQ Club6 HeartQ Club7 Heart3  
Diamond5 SpadeJ 共 13 张牌

玩家 2:

HeartK Club4 Diamond3 Club5 Spade5 Club3 Spade2 Club2 Diamond10 Diamond2 Heart2  
DiamondJ Club9 共 13 张牌

玩家 3:

ClubK ClubJ Club10 ClubQ Heart7 Spade10 Spade3 HeartJ Diamond6 SpadeK Diamond7 Club8  
DiamondK 共 13 张牌

玩家 4:

Diamond4 Heart9 Heart6 Heart4 Heart8 Diamond9 Spade8 SpadeA ClubA DiamondA Heart5 Spade7  
HeartA 共 13 张牌