# Java方向编程题答案

## day33

[编程题]24513-锤子剪刀布

https://www.nowcoder.com/guestionTerminal/79db907555c24b15a9c73f7f7d0e2471

# 【题目解析】:

这题应该不难

## 【解题思路】:

考察几个常用方法的使用,本身没有什么特别难的地方

# 【示例代码】:

```
import java.util.HashMap;
import java.util.Scanner;
import java.util.TreeMap;
public class Main {
  private static class Record {
    public int win;
    public int tie;
    public int lose;
    TreeMap<String, Integer> winCount;
    Record() {
       this.win = 0;
       this.tie = 0;
       this.lose = 0;
       this.winCount = new TreeMap<>();
       this.winCount.put("B", 0);
       this.winCount.put("C", 0);
       this.winCount.put("J", 0);
    }
  }
  private static void win(Record[] records, int win, String gesture) {
    int lose = 1 - win;
    records[win].win++;
    records[lose].lose++;
    int winCount = records[win].winCount.get(gesture);
    records[win].winCount.put(gesture, winCount + 1);
  private static void judge(String a, String b, Record[] records) {
    if (a.equals("B")) {
```

```
if (b.equals("B")) {
       records[0].tie++;
       records[1].tie++;
     } else if (b.equals("C")) {
       win(records, 0, "B");
    } else {
       win(records, 1, "J");
    }
  } else if (a.equals("C")) {
     if (b.equals("B")) {
       win(records, 1, "B");
    } else if (b.equals("C")) {
       records[0].tie++;
       records[1].tie++;
    } else {
       win(records, 0, "C");
    }
  } else {
     if (b.equals("B")) {
       win(records, 0, "J");
    } else if (b.equals("C")) {
       win(records, 1, "C");
    } else {
       records[0].tie++;
       records[1].tie++;
     }
  }
}
private static String mostWinGesture(TreeMap<String, Integer> winCount) {
  if (winCount.get("C") >= winCount.get("J")) {
     if (winCount.get("B") >= winCount.get("C")) {
       return "B";
    } else {
       return "C";
    }
  } else {
     if (winCount.get("B") >= winCount.get("J")) {
       return "B";
    } else {
       return "J";
  }
}
public static void main(String[] args) {
  Record[] records = new Record[2];
  records[0] = new Record();
  records[1] = new Record();
  Scanner scanner = new Scanner(System.in);
  int n = scanner.nextInt();
  for (int i = 0; i < n; i++) {
     String a = scanner.next();
```

[编程题]24964-上楼梯

https://www.nowcoder.com/questionTerminal/7f0661ace6df48d0af3f924950d57126

#### 【题目解析】:

大家应该都做个可以 1、2 的上楼梯, 那我们再换个 1、2、3 的练习下

# 【解题思路】:

动态规划上楼梯的变形

## 【示例代码】:

```
import java.util.*;
public class GoUpstairs {
  public int countWays(int n)
    // 第一阶有一种方法
    // 第二阶有两种方法, -
    // 第三阶有四种方法 , 1+1+1 or 1 + 2 or 2 + 1 or 3
    long[] pre = \{1, 2, 4\};
    if(n<=0) return 0;
    else if(n<=3) return (int)pre[n-1];
    else{
      for(int i=4; i<=n; i++){
        long tmp = (pre[0] + pre[1] + pre[2]) \% 1000000007;
        pre[0] = pre[1];
        pre[1] = pre[2];
        pre[2] = tmp;
      }
    return (int)pre[2];
 }
```

