

Java方向编程题答案

day25

[编程题]23649-学分绩点

链接: <https://www.nowcoder.com/questionTerminal/a0c09a7e0da04e728810a8aca7226b7b>

【题目解析】

无

【解题思路】

该题目难度一般，主要处理好程序的输入，计算区间能够全覆盖即可。

【代码示例】

```
import java.util.Scanner;
public class Main{
    public static void main(String[] args){
        Scanner in=new Scanner(System.in);
        int n=in.nextInt();
        int gradePoint[]=new int[n];//每门课学分
        int coursePoint[]=new int[n];//每门课分数

        for(int i=0;i<n;i++){
            gradePoint[i]=in.nextInt();
        }
        for(int i=0;i<n;i++){
            coursePoint[i]=in.nextInt();
        }
        in.close();
        System.out.printf("%.2f",gradePointAverage(gradePoint,coursePoint));//格式输出
    }
    //根据实际成绩判断学分方法
    public static double pointOfEachCourse(int grade){
        double point = 0.0;
        if(grade>=90&&grade<=100){
            point=4.0;
        }else if(grade>=85&&grade<=89){
            point=3.7;
        }else if(grade>=82&&grade<=84){
            point=3.3;
        }else if(grade>=78&&grade<=81){
            point=3.0;
        }else if(grade>=75&&grade<=77){
            point=2.7;
        }else if(grade>=72&&grade<=74){
            point=2.3;
        }else if(grade>=68&&grade<=71){
```

```

        point=2.0;
    }else if(grade>=64&&grade<=67){
        point=1.5;
    }else if(grade>=60&&grade<=63){
        point=1.0;
    }else if(grade<60){
        point=0.0;
    }
    return (double)point;
}
//计算平均绩点的方法
public static double gradePointAverage(int[] gradePoint,int[] coursePoint){
    double gradePointTotal=0;
    double gradeOfEachCourseTotal=0;
    for(int i=0;i<gradePoint.length;i++){
        gradePointTotal+=pointOfEachCourse(coursePoint[i])*gradePoint[i];
        gradeOfEachCourseTotal+=gradePoint[i];
    }
    return (double)gradePointTotal/gradeOfEachCourseTotal;
}
}

```

[编程题]36919-人民币转换

链接: <https://www.nowcoder.com/questionTerminal/00ffd656b9604d1998e966d555005a4b>

【题目解析】

生活中开发票常见，将人民币数字表示转换为汉字表示

【解题思路】

- 第一步：解析字符串
- 第二步：整数部分：按照 亿，万，千百十个位处理
- 第三步：小数部分：按照 角，分处理

【示例代码】

```

import java.util.Scanner;
public class Main{

    //阿拉伯数字0-9对应的中文
    static String[] map = {"壹","贰","叁","肆","伍","陆","柒","捌","玖"};

    public static void main(String[] args){
        Scanner scan = new Scanner(System.in);
        while(scan.hasNext()){
            String number = scan.next();
            resolve(number);
        }
        scan.close();
    }

    public static void resolve(String str){

```

```

String[] strArr = str.split("\\.");
//整数部分
int number = Integer.valueOf(str.split("\\.")[0]);

StringBuffer res = new StringBuffer("人民币");
int yi = (int)(number/100000000);
if(yi!=0){
    res.append(resolveQian(yi)).append("亿");
    number = number-yi*100000000;
}

int wan = (int)(number/10000);
if(wan!=0){
    res.append(resolveQian(wan)).append("万");
    number = number-wan*10000;
}

//处理千百十个位
String beforePointString = resolveQian(number);
if(beforePointString.length()>1){
    res.append(beforePointString).append("元");
}

//若有小数点，处理小数点后面位数
//小数部分处理
if(strArr.length>1){
    String afterPointStr = strArr[1];
    res.append(handleNumberAfterPoint(afterPointStr));
}

//在resolveQian() 方法里可能会返回 零xxx
//但在最高为不能有"零"
String resString = res.toString();

if(resString.length()>4 && resString.charAt(3)=='零' && resString.charAt(4)!='元'){
    //最高位的零去掉
    resString = resString.substring(0,3)+resString.substring(4);
}
System.out.println(resString);
}

//处理4位数 千百十个位
public static String resolveQian(double temp){

    StringBuffer resBuffer = new StringBuffer();

    //千位
    int qian = (int)(temp/1000);
    if(qian!=0){
        resBuffer.append(map[qian-1]).append("仟");

        temp = temp-qian*1000;
    }
}

```

```

    }

    //百位
    int bai = (int)(temp/100);
    if(bai!=0){
        resBuffer.append(map[bai-1]).append("佰");
        temp = temp-bai*100;
    }
    //注意:零 只会添加在 百位和十位
    if(qian!=0 && bai==0){
        resBuffer.append("零");
    }

    //十位
    int shi = (int)(temp/10);
    if(shi!=0){
        if(shi!=1){
            resBuffer.append(map[shi-1]);
        }
        resBuffer.append("拾");
        temp = temp-shi*10;
    }

    //注意: 0
    if(bai!=0&&shi==0){
        resBuffer.append("零");
    }

    //个位
    int ge = (int)(temp%10);

    if(ge!=0){
        //5,001 这种情况, 千百十位均为0
        if(qian==0&&bai==0&&shi==0){
            resBuffer.append("零");
        }
        resBuffer.append(map[ge-1]);
    }
    String res = resBuffer.toString();
    return res;
}

//处理小数点后面的数
public static String handleNumberAfterPoint(String str){
    String res = "";
    if(str.equals("00") || str.equals("0")){
        res = "整";
    }else{
        if(str.charAt(0)!='0'){
            res += map[Integer.valueOf(str.charAt(0)+"")-1]+"角";
        }

        if(str.length()>1 && str.charAt(1)!='0'){

```

```
        res += map[Integer.valueOf(str.charAt(1)+"")-1]+"分";
    }
}
return res;
}
}
```

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