2015年

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$1-5 \quad CADDD$

$6-10 \quad BDAAB$

$11-15 \quad CDABB$

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三.1.

```
public interface I{
    public void setXY(float x,float y);
    public float getX();
    public float getY();
    public float distance();
    public float distance(float x,float y);
}
public class City implements I{
    private float x = 0;
    private float y = 0;

    public void setXY(float x,float y) {
        this.x = x;
        this.y = y;
    }
    public float getX() {
        return this.x;
    }
    public float getY() {
        return this.y;
    }
    public float distance() {
        return (float)Math.sqrt((double)(this.x*this.x+this.y*this.y));
    }
    public float distance(float x,float y) {
        x -= this.x;
        y -= this.y;
        return (float)Math.sqrt((double)(x*x+y*y));
    }
```

```
}

public class TestCity{
    public static void main(String[] args) {
        City[] c = new City[1000];
        for(int i=0;i<c.length;i++) {
            c[i] = new City();
            c[i].setXY(i,i+1);
        }
        I[] p = c;
        float ans1 = 0;
        float ans2 = 0;
        for(int i=0; i<p.length; i++) {
            ans1 += p[i].distance();
        }
        for(int i=1; i<p.length; i++) {
            ans2 += (p[i].distance(p[i-1].getX(),p[i-1].getY()));
        }
        System.out.println(ans1);
        System.out.println(ans2);
    }
}
```

三.2.

```
public class Student  {
    private String studentName;
    private String studentID;
    private String studentUniversity;
    private int credit;
    private float score;

    public Student(String studentID,String studentName,String
studentUniversity,int credit,float score){
        this.studentID = studentID;
        this.studentName = studentName;
        this.studentUniversity = studentUniversity;
        this.credit = credit;
        this.score = score;
    }
    public String getID() {
        return studentID;
    }
    public void setID(String studentID) {
        this.studentID = studentID;
    }
    public String getName() {
        return studentName;
    }
    public void setName(String studentName) {
        this.studentName = studentName;
    }
    public String getUniversity() {
        return studentUniversity;
    }
```

```
    public void setUniversity(String studentUniversity) {
        this.studentUniversity = studentUniversity;
    }
    public int getCredit() {
        return credit;
    }
    public void setCredit(int credit) {
        this.credit = credit;
    }
    public float getScore() {
        return score;
    }
    public void setScore(float score) {
        this.score = score;
    }

    public void print() {
        System.out.println("Student ID = "+studentID);
        System.out.println("Student Name = "+studentName);
        System.out.println("Student University = "+score);
        System.out.println("Credit = "+credit);
        System.out.println("score = "+score);
    }
}

public class TestStudent {
    public static void main(String[] args) {
        Student s = new Student("123","guagua","NJUST",100,100);
        s.print();
    }
}
```

三.3.

```
import java.util.Random;
public class Number {
    public int value;
    public boolean isEven;

}
public class Triangle {
    public static void main(String[] args) {
        int depth = Integer.parseInt(args[0]);
        Random random = new Random();
        int fib[] = {1,1,2,3,5,8,13,21,34,55};
        Number[][] x = new Number[depth][];
        //System.out.println(x.length);
        for(int i=0;i<x.length;i++) {
            int length = random.nextInt(10);
            x[i] = new Number[length];
            for(int j=0;j<length;j++) {
                x[i][j] = new Number();
                x[i][j].value = fib[j];
                if(fib[j]%2==0) {
                    x[i][j].isEven = true;
```

```
                }
                else x[i][j].isEven = false;
            }
        }
        for(int i=0;i<x.length;i++) {
            for(int j=0;j<x[i].length;j++) {
                System.out.print(x[i][j].value);
                if(j==x[i].length-1) {
                    System.out.println();
                }
                else{
                    System.out.print(" ");
                }
            }
        }
    }
}
```