2017 年

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```java
//2017.三.1
import java.util.*;
public class Main
{
    float f(float x,int n){//递归计算通项的值
        if(n==0){
            return 1;
        }
        else {
            return f(x,n-1)*x*x*(-1)/(2*n)/(2*n-1);
        }

    }

    public static void main(String[] args){
        Scanner sc=new Scanner (System.in);
        float a=sc.nextFloat();
        Main k=new Main();
        System.out.print("cos("+a+") = ");
        int n=0;
        float s=0;
        do{
            s=s+k.f(a,n);
            n=n+1;
        }while(k.f(a,n)<=-0.00001||k.f(a,n)>=0.00001);//精度达到 0.00001
        System.out.print(s);
```

```
        }
}

//2017.三.2
class Teacher{
    private int age;
    private String name,education,position;
    Teacher(String a,int b,String c,String d)
    {
        name=a;
        age=b;
        education=c;
        position=d;
    }
    public String getname(){
        return name;
    }
    public void setname(String a){
        name=a;
    }
    public String geteducation(){
        return education;
    }
    public void seteducation(String a){
        education=a;
    }
    public String getposition(){
        return position;
    }
    public void setposition(String a){
        position=a;
    }
    public int getage(){
        return age;
    }
    public void setage(int a){
        age=a;
    }
    public String introduction(){
        return "大家好！我是"+getname()+"，我今年"+getage()+"岁，学历"+geteducation()+"，
目前职位是"+getposition();
    }
}
public class TeacherTest{
```

```java
        public static void main(String[] args){
            Teacher t=new Teacher("abc",22,"本科","大学生");
            System.out.println(t.introduction());
        }
    }
```

```java
//2017.三.3
class Animal
{
    protected int legs;
    protected Animal(int legs){
        this.legs=legs;
    }
    protected String walk(){
        return "这个动物用"+legs+"条腿走路";
    }
    public int getLegs(){
        return legs;
    }
}
interface Pet{
    String play();
}
class Cat extends Animal implements Pet
{
    private String name;
    public String play(){
        return name+"爱好抓老鼠";
    }
    Cat(int legs,String name){
        super(legs);            //注意 super 使用
        this.name=name;
    }
    public String getName(){
        return name;
```

```java
        }
    }
class Fish extends Animal implements Pet
{
        private String name;
        public String play(){
                return name+"爱好游泳";
        }
        Fish(int legs,String name){
                super(legs);                //注意 super 使用
                this.name=name;
        }
        public String getName(){
                return name;
        }
}
public class TestAnimal{
        static public void main(String[] args){
        Animal[] animals = new Animal[2];
        animals[0] = new Cat(4, "豆豆");
        animals[1] = new Fish(0, "蓝宝石");
        for (Animal ani : animals) {
        System.out.println(ani.walk());
        if (ani instanceof Pet) {
        System.out.println(((Pet) ani).play());
         }
        }
    }
}
```