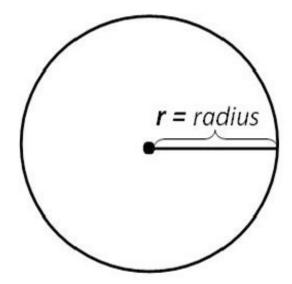
# Geometric circle



Enter the radius of the circle. Calculate the *perimeter* and *area* of the circle.

### Input

The first line of the input consist of a single integer number *t* which determines the number of tests.

In each of next *t* lines will contain the value of radius.

### **Constraints**

•  $0 < t \le 1000$ 

### **Output**

For each test case print out *perimeter* and *area* that separated by a space. Separate your answers with a new line character.

## **Example**

#### Input:

5

5

-2

1

4

#### **Output:**

31.415927 78.539816 the radius must be greater than 0 6.283185 3.141593 the radius must be greater than 0 25.132741 50.265482