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## Computing areas

**P39057\_en**

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Write a program that reads several descriptions of rectangles and circles, and for each one prints its corresponding area.

### Input

Input begins with a number  $n$ , followed by  $n$  descriptions. If of a rectangle, we have the word “rectangle” followed by two strictly positive real numbers: its length and its width. If of a circle, we have the word “circle” followed by a strictly positive real number: its radius.

### Output

For each description, print its area with 6 digits after the decimal point.

#### Sample input 1

```
2
rectangle 10 2.5
circle 100
```

#### Sample output 1

```
25.000000
31415.926536
```

### Problem information

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