Geometric Figures

Suppose you have a younger brother and he is in primary school. This year he is going to learn basic geometry. His syllabus includes calculation of areas and perimeters of basic geometric figures such as rectangles and circles. You think it might be helpful for him if he had a program that can computes areas of such figures. Since you are his elder brother it is you who should come forward.

Now write a program that can accept the following input from your brother.

(i) length and width of a rectangle
(ii) radius of a circle

Your program should output the following information.

(i) area and perimeter of the rectangle
(ii) area and perimeter of the circle
(iii) type of figure that has larger area

While receiving input the program should tell your brother what he should enter next. You may assume that the sides of rectangles are integers.

Test Case 1

Input

```
10
5
20
```

Output

```
PROPERTIES OF GEOMETRIC FIGURES
RECTANGLE
Enter one side :
Enter another side :
Area : 50
Perimeter : 30
CIRCLE
Enter radius :
Area : 1256.64
Perimeter : 125.664
Circle has larger area
```

Test Case 2

Input

```
15
12
5
```

Output

```
PROPERTIES OF GEOMETRIC FIGURES
RECTANGLE
Enter one side :
Enter another side :
Area : 180
Perimeter : 54
CIRCLE
Enter radius :
Area : 78.54
Perimeter : 31.416
Rectangle has larger area
```