## Geometric square



Enter the edge of the square. Calculate the perimeter and area of the square.

## 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 square's edge.

## Constraints

- $0<t \leq 1000$


## 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:
7
0
1
-2
3
12
-3
20

## Output:

the length of square's edge must be greater than 0 41
the length of square's edge must be greater than 0
129
48144
the length of square's edge must be greater than 0
80400

