## Geometric triangular



Enter the three edges of the triangular that named $a$ and $b$ and $c$. Calculate the perimeter and area of the triangular.

## 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 three edges $a$ and $b$ and $c$ that separated by a space.

## 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
05-2
234
9110
365
-9 24
841
152720
Output:
the length of triangular's edge must be greater than 0 92.905
three numbers a and b and c cannot make a triangular 147.483
the length of triangular's edge must be greater than 0 three numbers a and b and c cannot make a triangular 62147.729

