

# Triangles

Aditya is good in Maths. And he is also helping in nature. One day Riya couldn't solve a homework problem. So she went to Aditya's home. But he is busy as it is his "chat time". So now she wants your help to solve the problem.

Given the co-ordinates of two triangles. Find out the one with maximum area.

- If the area of both triangles are the same, print 0.
- If the area of first triangle is greater, print 1 area\_of\_first\_triangle up to two decimal places.
- If the area of second triangle is greater, print 2 area\_of\_second\_triangle up to two decimal places.

## Input

The first input line contains integer T ( $T \leq 1000$ ) which represents the number of test cases. Each test case consists of 2 lines with 6 integers each.

$0 \leq x_1, y_1, x_2, y_2, x_3, y_3 \leq 100$  - the coordinates of the first triangle.

$0 \leq p_1, q_1, p_2, q_2, p_3, q_3 \leq 100$  - the coordinates of the second triangle.

## Output

Print the answer to Riya's homework problem in newline.

### Note:

The triangle may be a degenerate triangle (Collinear points - triangle with zero area).

## Example

### Input:

```
2
1 1 2 2 3 1
4 4 5 5 6 4
1 1 2 2 3 1
4 4 5 5 6 6
```

### Output:

```
0
1 1.00
```