Momo's Homework

問題描述:

After playing, Momo remembers that she need to do her homework! There are T problems in Momo's homework. In each problem, there are three points in 2D plain, Momo's mission is to report the total score of the triangle!

0 point: If the three point can't form a triangle.

1 point : The triangle is isosceles triangle.

2 point : The triangle is equilateral triangle.

4 point : The triangle is right triangle.

8 point : The triangle is obtuse triangle.

16 point: The triangle is acute triangle.

輸入說明:

Input begins with an integer $T(1 \le T \le 1000)$, the number of test case. Each test case would be in the following format.

Line 1:
$$x_1y_1x_2y_2x_3y_3$$
 (0<= x_1,y_1,x_2,y_2,x_3,y_3 <=100000)

輸出說明:

Each test case outputs one line, which is the total score of the triangle.

範例:

Sample Output:
4 17 9