## 1306 - Solutions to an Equation

You have to find the number of solutions of the following equation:

$$Ax + By + C = 0$$

Where **A**, **B**, **C**, **x**, **y** are integers and  $x_1 \le x \le x_2$  and  $y_1 \le y \le y_2$ .

## **Input**

Input starts with an integer T ( $\leq$  10000), denoting the number of test cases.

Each case starts with a line containing seven integers **A**, **B**, **C**,  $\mathbf{x}_1$ ,  $\mathbf{x}_2$ ,  $\mathbf{y}_1$ ,  $\mathbf{y}_2$  ( $\mathbf{x}_1 \leq \mathbf{x}_2$ ,  $\mathbf{y}_1 \leq \mathbf{y}_2$ ). The value of each integer will lie in the range [-10<sup>8</sup>, 10<sup>8</sup>].

## **Output**

For each case, print the case number and the total number of solutions.

Sample Input	Output for Sample Input
5	Case 1: 3
1 1 -5 -5 10 2 4	Case 2: 37
-10 -8 80 -100 100 -90 90	Case 3: 1
2 3 -4 1 7 0 8	Case 4: 2
-2 -3 6 -2 5 -10 5	Case 5: 1
1 8 -32 0 0 1 10	