BUBT INTRA-UNIVERSITY PROGRAMMING CONTEST SPRING 2017(DIVISION 2)

Finished

THE CONTEST HAS ENDED.

I. Count the Divisors

Score: 1

CPU: 2s
Memory: 512MB

You are given two positive integer numbers P and Q. You have to find out the summation of number of divisors of each number between P and Q inclusive. An integer number D is a divisor of N if, D divides N evenly without any remainder (e.g. 1, 2, 3, 6 are the divisors of 6).

INPUT

The first line of input contains an integer T ($1 \leq T \leq 10^6$), denoting the number of test cases. Each case consists of two positive integers P and Q ($1 \leq P \leq Q \leq 10^6$).

OUTPUT

For output print the case number first. Then print the summation of number of divisors of each number between P and Q inclusive.

Sample

Input	Output
2 4 6 10 12	Case 1: 9 Case 2: 12

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