



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# A. Vanya and Table

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Vanya has a table consisting of 100 rows, each row contains 100 cells. The rows are numbered by integers from 1 to 100 from bottom to top, the columns are numbered from 1 to 100 from left to right.

In this table, Vanya chose  $\it n$  rectangles with sides that go along borders of squares (some rectangles probably occur multiple times). After that for each cell of the table he counted the number of rectangles it belongs to and wrote this number into it. Now he wants to find the sum of values in all cells of the table and as the table is too large, he asks you to help him find the result.

#### Input

The first line contains integer  $n (1 \le n \le 100)$  — the number of rectangles.

Each of the following n lines contains four integers  $x_1$ ,  $y_1$ ,  $x_2$ ,  $y_2$  ( $1 \le x_1 \le x_2 \le 100$ ),  $1 \le y_1 \le y_2 \le 100$ ), where  $x_1$  and  $y_1$  are the number of the column and row of the lower left cell and  $x_2$  and  $y_2$  are the number of the column and row of the upper right cell of a rectangle.

## **Output**

In a single line print the sum of all values in the cells of the table.

# Examples

input	
2 1123 2233	
output	
10	

input		
2 1133 1133		
output		
18		

## Note

Note to the first sample test:

Values of the table in the first three rows and columns will be as follows:

121

121

110

So, the sum of values will be equal to 10.

Note to the second sample test:

Values of the table in the first three rows and columns will be as follows:

## Codeforces Round #308 (Div. 2)

### **Finished**

#### → Virtual participation

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Start virtual contest





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So, the sum of values will be equal to 18.

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