

Problem I

Blue Cells

Input : STDIN

Output : STDOUT

There is a 2-D matrix of R rows and C columns, all of its cells are white initially.

Hind will choose x different rows of the R rows and y different columns of the C columns, and paint all of the cells contained in those rows or columns with blue paint. When a row is painted, all of its cells are painted (same for a column).

Now Hind is wondering; how many cells painted in white remain?

IN	$1 \leq R \leq 100$ $1 \leq C \leq 100$ $0 \leq x \leq R$ $0 \leq Y \leq C$
OUT	Print the number of white cells that will remain.

EX 1	INPUT	OUTPUT
	3 2 2 1	1

The matrix has 3 rows and 2 columns(6 cells in total).

Hind painted 2 rows and 1 column in blue, so only 1 cell will remain white.

NOTE

Note that the input method specified in the top of this paper is the standard input(stdin). Use these bits of code according to the programming language you are using to be able to read from the stdin.

C++:

```
int myInteger;  
string myString;  
cin >> myInteger>> myString; // read an integer then a string
```

Java (use the following Scanner object):

```
Scanner sc = new Scanner(System.in);  
int myInteger = sc.nextInt(); // read an integer  
String myString = sc.next(); // read a string  
sc.close();
```