

Blue Cells

1 Problem Statement.

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

X will choose x of the rows and y of the 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 X is wondering; how many white cells will remain?

2 Input

$$1 \leq R \leq 100$$

$$1 \leq C \leq 100$$

$$0 \leq x \leq R$$

$$0 \leq y \leq C$$

3 Output.

Print the number of white cells that will remain.

4 Examples.

4.1 example 1

Input:

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3 2
2 1
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Output:

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1
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The matrix has 3 rows and 2 columns(6 cells in total).

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