F Flatland Zoo

Time limit: 1s

Welcome to flatland, where everything is flat, except for Jimmy, a sphere of insignificant dimensions. There is a zoo in flatland full of beautiful flat animals. The zoo consists of a rectangular grid composed of $m \times n$ square spots of same size. Each spot mimics beautifully a natural flat environment for the flat animal living there. In order to visit a spot, one only needs to step into its interior.

Time is running fast, and Jimmy needs to visit as many spots as he can. After thinking for a while, he decided to do the following: start at the entrance in the bottom-left corner of the zoo and walk straight until reaching the exit in the top-right corner.

Can you tell how many spots Jimmy will be able to visit this way?

Input

The input consists of:

- One line containing two integers m and n ($1 \leq m, n \leq 10^{15}$), the dimensions of the zoo.

Output

Output the number of spots Jimmy will be able to visit.

Sample Input 1	Sample Output 1
3 3	3

Sample Input 2	Sample Output 2
2 5	6

Sample Input 3	Sample Output 3
20 10	20