

SUM

Given two integers, we consider all integers between them, including both given ones. Let us make the sum of these numbers.

Task

Write a program that computes the above described sum.

Input

Two integers a and b, separated by a space

Output

One integer, that is equal to the desired sum.

Constraints

– $-1000 < a < 1000$

– $-1000 < b < 1000$

Example

Input

2 4

Output

9