

Natural Number Sum

Given two natural numbers, find the sum of the range of natural numbers.

Input

Input consists of two numbers a and b.

$1 \leq a \leq b \leq 10000$

Output

Output a single integer n, the sum of all numbers from a to b.

Example

Input:

10 12

Output:

33

Explanation:

$10 + 11 + 12 = 33$