Natural Sum

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Timelimit: 1

One natural number is a non-negative integer (0, 1, 2, 3, 4, 5,...). Your task in this problem is to calculate the sum of the natural numbers that are present in a given interval [**A**, **B**] including.

For instance, the sum of the natural numbers in the range [2, 5] is 14 = (2 + 3 + 4 + 5).

Input

The test case contains two integers **A** e **B** ($1 \leq A \leq B \leq 10^9$), representing the lower limit and the upper respectively.

Output

For each test, the output consists of one line containing the sum of natural numbers in the range.

Input Sample	Output Sample
1 5	15
1 1000	500500
10 20	165

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