## Sum of Range

Input file: standard input
Output file: standard output

Time limit: 0.5 seconds Memory limit: 256 megabytes

Given 2 numbers A and B. Print three lines that contain the following respectively:

• summation of all numbers between A and B (inclusive).

• summation of even numbers between A and B (inclusive).

• summation of odd numbers between A and B (inclusive).

## Input

Only one line contains two numbers A and B  $(1 \le A, B \le 10^9)$ .

## Output

Print the answer required above.

## **Examples**

standard input	standard output
4 6	15
	10
	5
7 1	28
	12
	16