

E. Safe Room

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

As you may know, Shaggy and Scooby love food too much. They eat anything at anywhere and no one can prevent them from eating. One day, Velma decided to make a nice trick that can prevent them a while. The trick was as follows: Velma would like to store all the food, that is in the house, in a safe room. In order to open this room, you have to answer a mathematics question. Velma will give them two numbers L and R and asked them to get the summation of all the odd numbers in the range between L and R inclusive.



Shaggy and Scooby are very hungry right now. Therefore, they are seeking your help because they aren't good at mathematics.

Input

Only one line contains L and R . Where L and R ($-10^5 \leq L, R \leq 10^5$).

Output

Print the answer required to open the room

Examples

input
3 7
output
15
input
2 12
output
35

Note

First Test: $3 + 5 + 7 = 15$.

Second Test: $3 + 5 + 7 + 9 + 11 = 35$.