Another Input/Output Test

Similar to [this](#) problem, the purpose of this problem is to determine whether your method of reading input data and writing output data is fast enough to process extremely large test cases.

Input

There are multiple lines with cases. Each of these lines contains two space-separated integers a and b ($|a|$, $|b| \leq$ 2000000000).

Output

For each pair a and b, write a single line of output containing the value of a × b.

Example

Input:
3 4
-4 3

Output:
12
-12