

C. A+B

time limit per test: 2 seconds
memory limit per test: 64 megabytes
input: standard input
output: standard output

Bijan is new to programming. He learned recently that programmers do not code every bit of their apps from scratch.

For example they never write a code to sum two integers, because their languages have the ability to do the sum. But can they use it? Can an experienced coder who has attended more than 100 contests, sum two integers?

Bijan is not sure about this. What's your opinion?

Input

You are given two integers a and b , one per line ($1 \leq a, b < 10^{500}$). These numbers will not have any leading zeros.

Output

Write sum of the two integers. Do not put any leading zeros.

Examples

input
2 3
output
5

input
1390 2011
output
3401

input
12345 54321
output
66666