

Task X. A + B

Given two integers, calculate their sum.

Input

Input contains two integers a and b , in separate lines ($-10^{100} \leq a, b \leq 10^{100}$).

Output

Output the sum of given numbers.

Scoring

This problem contains four subtasks, for each subtask you will get the points only if you pass all the tests for this subtask.

1. (25 points): $0 \leq a, b \leq 10^9$.
2. (25 points): $-10^9 \leq a, b \leq 10^9$.
3. (25 points): $0 \leq a, b \leq 10^{100}$.
4. (25 points): $-10^{100} \leq a, b \leq 10^{100}$.

Examples

Example 1

Input:

```
2
3
```

Output:

```
5
```

Example 2

Input:

```
2
-3
```

Output:

```
-1
```