Java BigInteger

In this problem, you have to add and multiply huge numbers! These numbers are so big that you can't contain them in any ordinary data types like a long integer.

Use the power of Java's BigInteger class and solve this problem.

Input Format

There will be two lines containing two numbers, a and b.

Constraints

a and b are non-negative integers and can have maximum 200 digits.

Output Format

Output two lines. The first line should contain $a + b$, and the second line should contain $a \times b$. Don't print any leading zeros.

Sample Input

```
1234
20
```

Sample Output

```
1254
24680
```

Explanation

$1234 + 20 = 1254$
$1234 \times 20 = 24680$