

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 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 . The numbers are non-negative 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

$1234 + 20 = 1254$

$1234 \times 20 = 24680$