# 43. Multiply Strings

## Description

Given two non-negative integers num1 and num2 represented as strings, return the product of num1 and num2, also represented as a string.

Note: You must not use any built-in BigInteger library or convert the inputs to integer directly.

### **Example 1:**

```
Input: num1 = "2", num2 = "3"
Output: "6"
```

#### Example 2:

```
Input: num1 = "123", num2 = "456"
Output: "56088"
```

### **Constraints:**

- 1 <= num1.length, num2.length <= 200
- num1 and num2 consist of digits only.
- Both num1 and num2 do not contain any leading zero, except the number 0 itself.