

415. Add Strings

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

You must solve the problem without using any built-in library for handling large integers (such as BigInteger). You must also not convert the inputs to integers directly.

Example 1:

- **Input:** num1 = "11", num2 = "123"
- **Output:** "134"

Example 2:

- **Input:** num1 = "456", num2 = "77"
- **Output:** "533"

Example 3:

- **Input:** num1 = "0", num2 = "0"
- **Output:** "0"

Constraints:

- $1 \leq \text{num1.length}, \text{num2.length} \leq 10^4$
- num1 and num2 consist of only digits.
- num1 and num2 don't have any leading zeros except for the zero itself.