

# Problem 415: Add Strings

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 52.03%

**Paid Only:** No

**Tags:** Math, String, Simulation

## Problem Description

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 <= num1.length, num2.length <= 104` \* `num1` and `num2` consist of only digits. \*  
`num1` and `num2` don't have any leading zeros except for the zero itself.

## Code Snippets

**C++:**

```
class Solution {  
public:  
    string addStrings(string num1, string num2) {  
  
    }  
};
```

**Java:**

```
class Solution {  
    public String addStrings(String num1, String num2) {  
  
    }  
}
```

**Python3:**

```
class Solution:  
    def addStrings(self, num1: str, num2: str) -> str:
```