Here is the coding assignment

You are expected to make the best possible and optimized solution

You are expected to submit the final answers by 2 o’clock today

The response should be in a Word document(filename should be your name) and must be uploaded to this chat before the deadline

Multiply Strings

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.