

Problem 2023: Number of Pairs of Strings With Concatenation Equal to Target

Problem Information

Difficulty: Medium

Acceptance Rate: 75.20%

Paid Only: No

Tags: Array, Hash Table, String, Counting

Problem Description

Given an array of **digit** strings `nums` and a **digit** string `target`, return the number of pairs of indices `(i, j)` (where `i != j`) such that the **concatenation** of `nums[i] + nums[j]` equals `target`.

Example 1:

Input: `nums = ["777", "7", "77", "77"], target = "7777"` **Output:** 4 **Explanation:** Valid pairs are: - (0, 1): "777" + "7" - (1, 0): "7" + "777" - (2, 3): "77" + "77" - (3, 2): "77" + "77"

Example 2:

Input: `nums = ["123", "4", "12", "34"], target = "1234"` **Output:** 2 **Explanation:** Valid pairs are: - (0, 1): "123" + "4" - (2, 3): "12" + "34"

Example 3:

Input: `nums = ["1", "1", "1"], target = "11"` **Output:** 6 **Explanation:** Valid pairs are: - (0, 1): "1" + "1" - (1, 0): "1" + "1" - (0, 2): "1" + "1" - (2, 0): "1" + "1" - (1, 2): "1" + "1" - (2, 1): "1" + "1"

Constraints:

`2 <= nums.length <= 100` `1 <= nums[i].length <= 100` `2 <= target.length <= 100`
`nums[i]` and `target` consist of digits. `nums[i]` and `target` do not have leading zeros.

Code Snippets

C++:

```
class Solution {  
public:  
    int numOfPairs(vector<string>& nums, string target) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int numOfPairs(String[] nums, String target) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def numOfPairs(self, nums: List[str], target: str) -> int:
```