Problem 2283: Check if Number Has Equal Digit Count and Digit Value

Problem Information

Difficulty: Easy
Acceptance Rate: 72.91%
Paid Only: No
Tags: Hash Table, String, Counting

Problem Description

You are given a **0-indexed** string `num` of length `n` consisting of digits.

Return `true` _if for**every** index _`i` _in the range_`0 <= i < n` _, the digit_`i` _occurs_`num[i]`_times in_`num` _, otherwise return_`false`.

Example 1:

Input: num = "1210" **Output:** true **Explanation:** num[0] = '1'. The digit 0 occurs once in num. num[1] = '2'. The digit 1 occurs twice in num. num[2] = '1'. The digit 2 occurs once in num. num[3] = '0'. The digit 3 occurs zero times in num. The condition holds true for every index in "1210", so return true.

Example 2:

Input: num = "030" **Output:** false **Explanation:** num[0] = '0'. The digit 0 should occur zero times, but actually occurs twice in num. num[1] = '3'. The digit 1 should occur three times, but actually occurs zero times in num. num[2] = '0'. The digit 2 occurs zero times in num. The indices 0 and 1 both violate the condition, so return false.

Constraints:

* `n == num.length` * `1 <= n <= 10` * `num` consists of digits.

Code Snippets

C++:

```
class Solution {
public:
bool digitCount(string num) {

}
};
```

Java:

```
class Solution {
public boolean digitCount(String num) {

}
}
```

Python3:

```
class Solution:
def digitCount(self, num: str) -> bool:
```