Problem 66: Plus One

Problem Information

Difficulty: Easy
Acceptance Rate: 48.34%
Paid Only: No
Tags: Array, Math

Problem Description

You are given a **large integer** represented as an integer array `digits`, where each `digits[i]` is the `ith` digit of the integer. The digits are ordered from most significant to least significant in left-to-right order. The large integer does not contain any leading `0`'s.

Increment the large integer by one and return _the resulting array of digits_.

Example 1:

Input: digits = [1,2,3] **Output:** [1,2,4] **Explanation:** The array represents the integer 123. Incrementing by one gives 123 + 1 = 124. Thus, the result should be [1,2,4].

Example 2:

Input: digits = [4,3,2,1] **Output:** [4,3,2,2] **Explanation:** The array represents the integer 4321. Incrementing by one gives 4321 + 1 = 4322. Thus, the result should be [4,3,2,2].

Example 3:

Input: digits = [9] **Output:** [1,0] **Explanation:** The array represents the integer 9. Incrementing by one gives 9 + 1 = 10. Thus, the result should be [1,0].

Constraints:

* `1 <= digits.length <= 100` * `0 <= digits[i] <= 9` * `digits` does not contain any leading `0`'s.

Code Snippets

C++:

```
class Solution {
public:
vector<int> plusOne(vector<int>& digits) {

}
};
```

Java:

```
class Solution {
public int[] plusOne(int[] digits) {

}
}
```

Python3:

```
class Solution:
def plusOne(self, digits: List[int]) -> List[int]:
```