

Leetcode Problem 1. (Easy)

Plus One

You are given a **large integer** represented as an integer array `digits`, where each `digits[i]` is the i^{th} 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:

- $1 \leq \text{digits.length} \leq 100$
- $0 \leq \text{digits}[i] \leq 9$
- `digits` does not contain any leading 0's.

<https://leetcode.com/problems/plus-one/>

```
class Solution {  
    public int[] plusOne(int[] digits) {  
        int carry = 1;
```

}

Accepted

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Sakib Rahman
Apr 17, 2023 13:43

Java

Runtime 0 ms

Beats 100%

Memory 41 MB

Beats 62.14%

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Notes

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```
class Solution {
    public int[] plusOne(int[] digits) {
        int carry = 1;
        int n = digits.length;
        for (int i = n - 1; i >= 0; i--) {
            int sum = digits[i] + carry;
            digits[i] = sum % 10;
            carry = sum / 10;
        }
        if (carry == 0) {
            return digits;
        }
    }
}
```

Console

Run Submit