

0066 - Plus One



 +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].



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].







-  +1  10  +1 
- 
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 -  -> 

 `new int[size + 1]` 

```
class Solution {  
    public int[] plusOne(int[] digits) {  
        int lastIndex = digits.length - 1;
```

```
int lastNum = digits[lastIndex];

lastNum += 1;

if(lastNum < 10){
    digits[lastIndex] = lastNum;
    return digits;
} else {
    digits[lastIndex] = 0;
    int carry = 1;

    for(int i = lastIndex - 1; i >= 0; i--){
        lastNum = digits[i] + carry;

        if(lastNum < 10){
            digits[i] = lastNum;
            carry = 0;
            break;
        } else {
            digits[i] = 0;
        }
    }

    if(carry > 0){
        int[] newArr = new int[digits.length + 1];
        newArr[0] = carry;

        for(int i = 1; i < newArr.length; i++){
            newArr[i] = digits[i - 1];
        }

        return newArr;
    } else {
        return digits;
    }
}
}
```

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