

Plus One

Given a non-negative number represented as an array of digits, plus one to the number.

The digits are stored such that the most significant digit is at the head of the list.

Solution 1

```
void plusone(vector<int> &digits)
{
    int n = digits.size();
    for (int i = n - 1; i >= 0; --i)
    {
        if (digits[i] == 9)
        {
            digits[i] = 0;
        }
        else
        {
            digits[i]++;
            return;
        }
    }
    digits[0] = 1;
    digits.push_back(0);
}
```

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Solution 2

```
public int[] plusOne(int[] digits) {  
  
    int n = digits.length;  
    for(int i=n-1; i>=0; i--) {  
        if(digits[i] < 9) {  
            digits[i]++;  
            return digits;  
        }  
  
        digits[i] = 0;  
    }  
  
    int[] newNumber = new int [n+1];  
    newNumber[0] = 1;  
  
    return newNumber;  
}
```

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Solution 3

```
public int[] plusOne(int[] digits) {
    for (int i = digits.length - 1; i >= 0; i--) {
        if (digits[i] != 9) {
            digits[i]++;
            break;
        } else {
            digits[i] = 0;
        }
    }
    if (digits[0] == 0) {
        int[] res = new int[digits.length+1];
        res[0] = 1;
        return res;
    }
    return digits;
}
```

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