链滴

[每日 LeetCode] 448. Find All Numbers Disappeared in an Array

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原文链接：https://ld246.com/article/1552580065655

来源网站：链滴

Description:

Given an array of integers where 1 ≤ a[i] ≤ n (n = size of array), some elements appear twice nd others appear once.

Find all the elements of [1, n] inclusive that do not appear in this array.

Could you do it without extra space and in O(n) runtime? You may assume the returned list des not count as extra space.

Example:

```
Input:
[4,3,2,7,8,2,3,1]

Output:
[5,6]
```

思路：本题要求找出数组中没有出现过的1-n（n为数组长度）之间的数字。定义一个长度为n的数组tmp，全都初始化为0。然后遍历给出的数组，令temp[nums[i]-1]=-1。最后遍历数组temp，那些值0的数的位置加上1就是所要求的没有出现的数。

```
class Solution {
public:
    vector<int> findDisappearedNumbers(vector<int>& nums) {
        int size=nums.size();
        vector<int> temp(size,0);
        vector<int> result;
        for(int i=0;i<size;i++){
            temp[nums[i]-1]=-1;
        }
        for(int i=0;i<size;i++){
            if(temp[i]==0)
               result.push_back(i+1);
        }
        return result;
    }
};
```

运行时间：120ms

运行内存：16.4M

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