080. Remove Duplicates from Sorted Array II

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- **Two Pointers**+Array

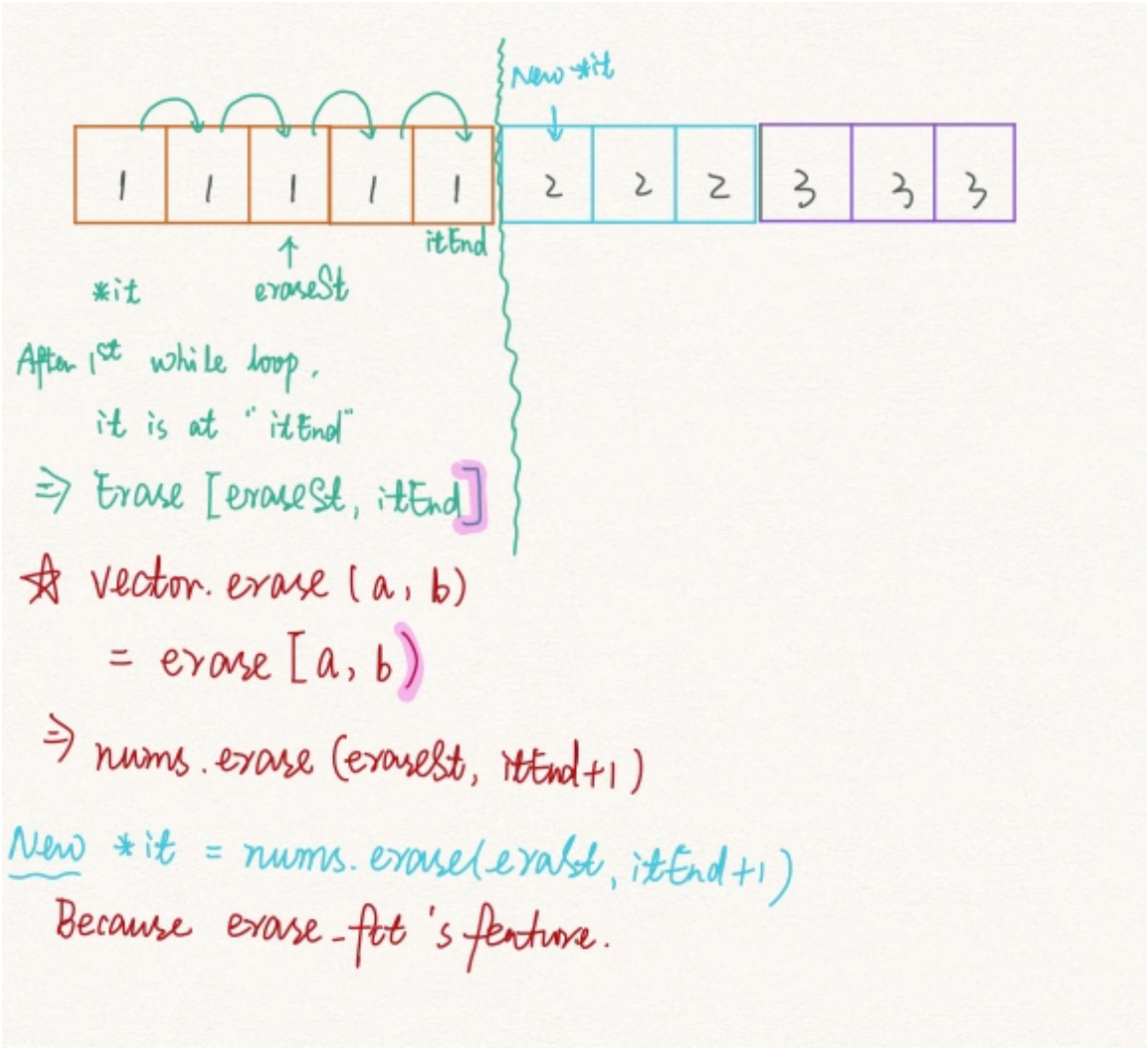
Description

Follow up for "Remove Duplicates":
What if duplicates are allowed at most *twice*?

For example,
Given sorted array *nums* = `[1,1,1,2,2,3]`,

Your function should return length = `5`, with the first five elements of *nums* being `1`, `1`, `2`, `2` and `3`. It doesn't matter what you leave beyond the new length.

1. Thought line



2. Two Pointers+Array

```
class Solution {
public:
    int removeDuplicates(vector<int>& nums) {
        int result = 0;
        for (auto it = nums.begin(), eraseSt = it; it !=nums.end();  eraseSt = it){
            int duplicateAct = 1;
            while (it +1 !=nums.end() && *(it+1)==*it){
                ++duplicateAct, ++it;
                if (duplicateAct==3) eraseSt = it;
            }
            if (duplicateAct>2) it = nums.erase(eraseSt, it+1);
            else ++it;
            result += duplicateAct<2?duplicateAct:2;
        }
        return result;
    }
};
```