

Two Sum

```
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        vector<int> res;
        map<int,int> m;
        for(int i = 0; i<nums.size(); i++){
            int k = target-nums[i];
            if(m.find(k)!=m.end()){
                res.push_back(i);res.push_back(m[k]);
            }
            m[nums[i]] = i;
        }
        return res;
    }
};
```

Removing duplicates from sorted array

```
#include<bits/stdc++.h>
class Solution {
public:
    int removeDuplicates(vector<int>& nums) {
        int i=0;
        for(int j=1; j<nums.size(); j++){
            if(nums[i] != nums[j]){
                i++;
                nums[i]=nums[j];
            }
        }
        return i+1;
    }
};
```