



Common Elements

Easy

Accuracy: 35.98%

Submissions: 29K+

Points: 2



Don't Miss Out on the Exciting World of Data Science and Unlock Your Full Potential

Today. Try this course!



Given two lists **V1** and **V2** of sizes **n** and **m** respectively. Return the list of elements common to both the lists and return the list in sorted order. Duplicates may be there in the output list.

Example:

Input:

 $n = 5$ $v1[] = \{3, 4, 2, 2, 4\}$ $m = 4$ $v2[] = \{3, 2, 2, 7\}$

Output:

2 2 3

Explanation:

The common elements in sorted order are {2 2 3}

```
1 * // } Driver Code Ends
2 //Back-end complete function Template for C++
3
4 class Solution{
5 public:
6     vector<int> common_element(vector<int>v1,vector<int>v2)
7     {
8         // Your code here
9         sort(v1.begin() , v1.end());
10        sort(v2.begin() , v2.end());
11
12        int n1 = v1.size();
13        int n2 = v2.size();
14        int i = 0 , j = 0 ;
15        vector<int>v;
16
17        while( i < n1 && j < n2){
18            if(v1[i] == v2[j]){
19                v.push_back(v1[i]);
20                i++; j++;
21            }else if(v1[i] < v2[j]){
22                i++;
23            }else{
24                j++;
25            }
26        }
27        return v;
28    }
29 };
30 // } Driver Code Ends
```



[Description](#)
[Discussion \(58\)](#)
[Solutions \(4.1K\)](#)
[Submissions](#)
[C++](#)
[Auto](#)


31. Next Permutation

Medium


14.4K

4K


[Companies](#)

A **permutation** of an array of integers is an arrangement of its members into a sequence or linear order.

- For example, for `arr = [1,2,3]`, the following are all the permutations of `arr`: `[1,2,3]`, `[1,3,2]`, `[2, 1, 3]`, `[2, 3, 1]`, `[3,1,2]`, `[3,2,1]`.

The **next permutation** of an array of integers is the next lexicographically greater permutation of its integer. More formally, if all the permutations of the array are sorted in one container according to their lexicographical order, then the **next permutation** of that array is the permutation that follows it in the sorted container. If such arrangement is not possible, the array must be rearranged as the lowest possible order (i.e., sorted in ascending order).

- For example, the next permutation of `arr = [1,2,3]` is `[1,3,2]`.
- Similarly, the next permutation of `arr = [2,3,1]` is `[3,1,2]`.
- While the next permutation of `arr = [3,2,1]` is `[1,2,3]` because `[3,2,1]` does not have a lexicographical larger rearrangement.

Given an array of integers `nums`, find the next permutation of `nums`.

The replacement must be **in place** and use only constant extra memory.

```

1 class Solution {
2 public:
3     void nextPermutation(vector<int>& a) {
4         int index = -1;
5         int n = a.size();
6         for(int i=n-1;i>0;i--){
7             if(a[i]>a[i-1]){
8                 index = i;
9                 break;
10            }
11        }
12        if(index == -1){
13            reverse(a.begin(),a.end());
14        }
15        else{
16            int prev = index;
17            for(int i=index+1;i<n;i++){
18                if(a[i] > a[index-1] and a[i] <= a[prev]){
19                    prev = i;
20                }
21            }
22            swap(a[index-1],a[prev]);
23            reverse(a.begin()+index,a.end());
24        }
25    }
26 }
```

Continue to work on your code from Feb 17, 2023 20:20:32 [Restore](#)

[Console](#)

[Run](#)
[Submit](#)



Array Subset of another array



Easy

Accuracy: 44.05%

Submissions: 175K+

Points: 2



Don't Miss Out on the Exciting World of Data Science and Unlock Your Full Potential



Today. Try this course!

Given two arrays: **a1[0..n-1]** of size **n** and **a2[0..m-1]** of size **m**. Task is to check whether **a2[]** is a subset of **a1[]** or not. Both the arrays can be sorted or unsorted.

Example 1:

Input:

a1[] = {11, 1, 13, 21, 3, 7}

a2[] = {11, 3, 7, 1}

Output:

Yes

Explanation:

a2[] is a subset of a1[]

```
1 // } Driver Code Ends
29
30
31 string isSubset(int a1[], int a2[], int n, int m) {
32     unordered_map<int, int>mp;
33     for(int i=0;i<n;i++){
34         mp[a1[i]]++;
35     }
36     for(int i=0;i<m;i++){
37         if(mp[a2[i]]==0){
38             return "No";
39         } else {
40             mp[a2[i]]--;
41         }
42     }
43     return "Yes";
44 }
```

