Started on	Friday, 25 October 2024, 2:10 PM
State	Finished
Completed on	Friday, 25 October 2024, 2:44 PM
Time taken	34 mins 5 secs
Marks	1.00/1.00
Grade	**30.00** out of 30.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Find the intersection of two sorted arrays.

OR in other words,

Given 2 sorted arrays, find all the elements which occur in both the arrays.

Input Format

· The first line contains T, the number of test cases. Following T lines contain:

1. Line 1 contains N1, followed by N1 integers of the first array
2. Line 2 contains N2, followed by N2 integers of the second array

Output Format

The intersection of the arrays in a single line

Example

Input:

1

3 10 17 57

6 2 7 10 15 57 246

Output:

10 57

Input:

1

6 1 2 3 4 5 6

2 1 6

Output:

1 6

For example:

Input	Result
1 3 10 17 57 6 2 7 10 15 57 246	10 57

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
int main() {
    int T;
    scanf("%d", &T);
    while (T--) {
        int n1,n2;
        scanf("%d", &n1);
        int arr1[n1];
        for (int i=0;i<n1;i++) {
            scanf("%d",&arr1[i]);
        }
        scanf("%d",&n2);
        int arr2[n2];
        for (int i=0;i<n2;i++) {
            scanf("%d",&arr2[i]);
        }
        int i=0,j=0;
        while (i<n1 && j<n2) {
            if (arr1[i]==arr2[j]) {
                printf("%d ",arr1[i]);
                i++;
                j++;
            } else if (arr1[i]<arr2[j]) {
                i++;
            } else {
                j++;
```

```
            }
        }
    }
}
```

	Input	Expected	Got	
✔	1 3 10 17 57 6 2 7 10 15 57 246	10 57	10 57	✔
✔	1 6 1 2 3 4 5 6 2 1 6	1 6	1 6	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

Jump to...

4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,O(1) Space Complexity ►