RAJALAKSHMI ENGINEERING COLLEGE

VISAANTH M 2024-IT

V2

Started on	Wednesday, 15 October 2025, 1:37 PM
State	Finished
Completed on	Wednesday, 15 October 2025, 2:00 PM
Time taken	22 mins 38 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;int j=0;
        int first=1;
```

```
        while(i<n1 && j<n2){
            if(arr1[i]==arr2[j]){
                if(!first) printf(" ");
                printf("%d", arr1[i]);
                first=0;
                i++;
                j++;
            }else if(arr1[i]<arr2[j]) i++;
            else j++;
        }
        printf("\n");
    }
    return 0;
}
```

	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.

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