

**Started on** Thursday, 23 October 2025, 8:49 PM

**State** Finished

**Completed on** Thursday, 23 October 2025, 10:49 PM

**Time taken** 2 hours

**Marks** 1.00/1.00

**Grade** **10.00** out of 10.00 (**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:

- Line 1 contains N1, followed by N1 integers of the first array
- 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	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int T;
6     scanf("%d",&T);
7     while(T--)
8     {
9         int n1,n2;
10        scanf("%d",&n1);
11        int arr1[n1];
12        for(int i=0;i<n1;i++)
13        {
14            scanf("%d",&arr1[i]);
15        }
16        scanf("%d",&n2);
17        int arr2[n2];
18        for(int i=0;i<n2;i++)
19        {
20            scanf("%d",&arr2[i]);
21        }
22        int i=0, j=0;
```

```

23     while(i<n1 && j<n2)
24     {
25         if(arr1[i]==arr2[j])
26         {
27             printf("%d ",arr1[i]);
28             i++;
29             j++;
30         }
31     else if (arr1[i]<arr2[j])
32     {
33         i++;
34     }
35     else
36     {
37         j++;
38     }
39     }
40     printf("\n");
41 }
42 return 0;
43 }
```

	<b>Input</b>	<b>Expected</b>	<b>Got</b>	
✓	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.

