

**Started on** Friday, 24 October 2025, 8:13 PM

**State** Finished

**Completed on** Friday, 24 October 2025, 9:42 PM

**Time taken** 1 hour 29 mins

**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 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     while(t--)
7     {
8         int n1,n2,i=0,j=0;
9         scanf("%d",&n1);
10        int a[n1];
11        for(i=0;i<n1;i++) scanf("%d",&a[i]);
12        scanf("%d",&n2);
13        int b[n2];
14        for(i=0;i<n2;i++) scanf("%d",&b[i]);
```

```

15     i=j=0;
16     while(i<n1 && j<n2)
17     {
18         if(a[i]==b[j])
19         {
20             printf("%d ",a[i]);
21             i++;
22             j++;
23         }
24         else if(a[i]<b[j])
25             i++;
26         else
27             j++;
28     }
29     printf("\n");
30 }
31 }
```

	<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.