

**Started on** Thursday, 30 October 2025, 9:27 AM

**State** Finished

**Completed on** Thursday, 30 October 2025, 9:31 AM

**Time taken** 4 mins 53 secs

**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:
  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	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     int t;
4     scanf("%d",&t);
5     while(t--){
6         int n1,n2;
7         scanf("%d",&n1);
8         int a[n1];
9         for (int i=0;i<n1;i++){
10            scanf("%d",&a[i]);
11        }
12        scanf("%d",&n2);
13        int b[n2];
14        for(int i=0;i<n2;i++){
15            scanf("%d",&b[i]);
16        }
17        int i=0,j=0;
18        while(i<n1 && j<n2){
19            if(a[i]==b[j])
20            {

```

```
22         printf("%d ",a[i]);
23         i++;
24         j++;
25     }
26 }else if(a[i]<b[j]){
27     i++;
28 }
29 else{
30     j++;
31 }
32 }
33 }
34 }return 0;
35 }
```

	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.

