
Started on Friday, 24 October 2025, 9:00 PM

State Finished

Completed on Friday, 24 October 2025, 9:06 PM

Time taken 5 mins 30 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 3 10 17 57 6 2 7 10 15 57 246	10 57

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;
9         scanf("%d",&n1);
10        int arr1[n1];
11        for(int i=0;i<n1;i++)
12        {
13            scanf("%d",&arr1[i]);
14        }
```

```
15 scanf("%d",&n2);
16 int arr2[n2];
17 for(int i=0;i<n2;i++)
18 {
19     scanf("%d",&arr2[i]);
20 }
21 int i=0,j=0;
22 while(i<n1 && j<n2)
23 {
24     if(arr1[i]==arr2[j])
25     {
26         printf("%d ",arr1[i]);
27         i++;
28         j++;
29     }
30     else if(arr1[i]<arr2[j])
31     {
32         i++;
33     }
34     else
35     {
36         j++;
37     }
38 }
39 printf("\n");
40 }
41 }
42 }
```

	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.