
Started on Thursday, 30 October 2025, 8:31 AM

State Finished

Completed on Thursday, 30 October 2025, 8:42 AM

Time taken 11 mins 36 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 }
```

	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.