
Started on Monday, 27 October 2025, 3:13 PM

State Finished

Completed on Monday, 27 October 2025, 3:40 PM

Time taken 27 mins 27 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     int T,n1,n2;
4     scanf("%d",&T);
5     while (T--){
6         scanf("%d",&n1);
7         int a1[n1];
8         for (int i=0;i<n1;i++)
9             scanf("%d",&a1[i]);
10        scanf("%d",&n2);
11        int a2[n2];
12        for (int j=0;j<n2;j++)
13            scanf("%d",&a2[j]);
14        int i=0,j=0;
```

```
15 while(i<n1 && j<n2){
16     if(a1[i]==a2[j]){
17         printf("%d ",a1[i]);
18         i++;
19         j++;
20     }
21     else if(a1[i]<a2[j])
22         i++;
23     else
24         j++;
25 }
26 }
27 }
```

	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.