Started on	Saturday, 9 November 2024, 11:14 AM
State	Finished
Completed on	Saturday, 9 November 2024, 11:19 AM
Time taken	4 mins 33 secs
Marks	1.00/1.00
Grade	**30.00** out of 30.00 (**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
3 ▾ int main(){
4       int t;
5       scanf("%d",&t);
6 ▾     while(t){
7           int n1;
8           scanf("%d",&n1);
9           int arr[n1];
10          for(int i=0 ; i<n1 ; i++)
11              scanf("%d",&arr[i]);
12
13          int n2;
14          scanf("%d",&n2);
15          int brr[n2];
16          for(int i=0 ; i<n2 ; i++)
17              scanf("%d",&brr[i]);
18
19          int i=0, j=0;
20 ▾        while(i<n1 && j<n2){
21              if(arr[i] < brr[j])
22                  i++;
```

```
23              else if(arr[i] > brr[j])
24                  j++;
25 ▾            else{
26                  printf("%d ",arr[i]);
27                  i++, j++;
28              }
29          }
30          t--;
31      }
32 }
```

	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.

◄ 3-Print Intersection of 2 sorted arrays-O(m*n)Time Complexity,O(1) Space Complexity

Jump to...

5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity ►