Started on	Sunday, 10 November 2024, 7:42 PM
State	Finished
Completed on	Sunday, 10 November 2024, 7:52 PM
Time taken	9 mins 26 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 %)

```c
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 a1[n1];
9          for(int i=0;i<n1;i++){
10             scanf("%d",&a1[i]);
11         }
12         scanf("%d",&n2);
13         int a2[n2];
14         for(int i=0;i<n2;i++){
15             scanf("%d",&a2[i]);
16         }
17         int i=0;
18         int j=0;
19         while(i<n1){
20             if(a1[i]>a2[j]){
21                 j++;
22             }
```

```
23 ▼            else if(a1[i]<a2[j]){
24                  i++;
25              }
26 ▼            else{
27                  printf("%d ",a1[i]);
28                  i++;
29                  j++;
30              }
31
32          }
33      }
34 }
```

	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 ►