Status	Finished
Started	Saturday, 12 April 2025, 1:19 PM
Completed	Saturday, 12 April 2025, 1:20 PM
Duration	37 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
#include <stdio.h>

int main() {
    int t;
    scanf("%d", &t);

    while(t--) {
        int n;
        scanf("%d", &n);
        int arr[n];
        for(int i = 0; i < n; i++) {
            scanf("%d", &arr[i]);
        }

        int m;
        scanf("%d", &m);
        int brr[m];
        for(int i = 0; i < m; i++) {
            scanf("%d", &brr[i]);
        }

        int i = 0, j = 0;
```

```
        while(i < n && j < m) {
            if(arr[i] < brr[j]) {
                i++;
            } else if(arr[i] > brr[j]) {
                j++;
            } else {
                printf("%d ", arr[i]);
                i++;
                j++;
            }
        }

        printf("\n");
    }

    return 0;
}
```

	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.

◄ 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

Jump to...

4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,O(1) Space Complexity ►