

KARTHIK J 2024-IT ▾**K2****Started on** Wednesday, 8 October 2025, 2:05 PM**State** Finished**Completed on** Sunday, 16 November 2025, 6:19 PM**Time taken** 39 days 4 hours**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	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

```

1 #include <stdio.h>
2
3 void findIntersection(int arr1[], int n1, int arr2[], int n2) {
4     int i = 0, j = 0;
5     while (i < n1 && j < n2) {
6         if (arr1[i] == arr2[j]) {
7             printf("%d ", arr1[i]);
8             i++;
9             j++;
10        } else if (arr1[i] < arr2[j]) {
11            i++;
12        } else {
13            j++;
14        }
15    }
16 }
```

```

15     }
16     printf("\n");
17 }
18
19 int main() {
20     int T;
21     scanf("%d", &T);
22
23     while (T--) {
24         int n1, n2;
25         scanf("%d", &n1);
26         int arr1[n1];
27         for (int i = 0; i < n1; i++) {
28             scanf("%d", &arr1[i]);
29         }
30
31         scanf("%d", &n2);
32         int arr2[n2];
33         for (int i = 0; i < n2; i++) {
34             scanf("%d", &arr2[i]);
35         }
36
37         findIntersection(arr1, n1, arr2, n2);
38     }
39
40     return 0;
41 }
42

```

	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.

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