

SRIRAM S (12/08/2006) 2024-IT**S2****Started on** Wednesday, 5 November 2025, 4:21 AM**State** Finished**Completed on** Wednesday, 5 November 2025, 4:23 AM**Time taken** 2 mins 3 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:

- Line 1 contains N1, followed by N1 integers of the first array
- 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 // Function to find and print intersection of two sorted arrays
4 void findIntersection(int arr1[], int n1, int arr2[], int n2) {
5     int i = 0, j = 0;
6
7     while (i < n1 && j < n2) {
8         if (arr1[i] < arr2[j])
9             i++;
10        else if (arr1[i] > arr2[j])
11            j++;
12        else {
13            printf("%d ", arr1[i]);
14            i++;
15        }
16    }
17 }
```

```

15     j++;
16 }
17 }
18 printf("\n");
19 }
20
21 int main() {
22     int T;
23     scanf("%d", &T);
24
25     while (T--) {
26         int n1;
27         scanf("%d", &n1);
28         int arr1[n1];
29         for (int i = 0; i < n1; i++)
30             scanf("%d", &arr1[i]);
31
32         int n2;
33         scanf("%d", &n2);
34         int arr2[n2];
35         for (int i = 0; i < n2; i++)
36             scanf("%d", &arr2[i]);
37
38         findIntersection(arr1, n1, arr2, n2);
39     }
40
41     return 0;
42 }
43

```

	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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