

Vedhavyas Pavankalyan G L 2023-IT-A**V2****Started on** Sunday, 19 October 2025, 5:53 PM**State** Finished**Completed on** Sunday, 19 October 2025, 5:53 PM**Time taken** 23 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 int main() {
4     int T;
5     scanf("%d", &T);
6     while (T--) {
7         int n1, n2;
8         scanf("%d", &n1);
9         int a[n1];
10        for (int i = 0; i < n1; i++)
11            scanf("%d", &a[i]);
12        scanf("%d", &n2);
13        int b[n2];
14        for (int i = 0; i < n2; i++)
```

```

15     scanf("%d", &b[i]);
16     int i = 0, j = 0;
17     while (i < n1 && j < n2) {
18         if (a[i] == b[j]) {
19             printf("%d ", a[i]);
20             i++;
21             j++;
22         } else if (a[i] < b[j]) {
23             i++;
24         } else {
25             j++;
26         }
27     }
28     printf("\n");
29 }
30 return 0;
31 }
```

	<b>Input</b>	<b>Expected</b>	<b>Got</b>	
✓	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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