

## 3-Print Intersection of 2 sorted arrays-O(m\*n)Time Complexity,O(1) Space Complexity

<b>Started on</b>	Sunday, 19 October 2025, 8:10 PM
<b>State</b>	Finished
<b>Completed on</b>	Sunday, 19 October 2025, 8:22 PM
<b>Time taken</b>	11 mins 41 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	30.00 out of 30.00 (100%)

**Question 1** | Correct Mark 1.00 out of 1.00 Flag question

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 void find(int a[],int m,int b[],int n){
3     int i=0,j=0;
4     while(i<m && j<n){
5         if(a[i]<b[j]){
6             i++;
7         }
8         else if(a[i]>b[j]){
9             j++;
10        }
11        else{
12            printf("%d ",a[i]);
13            i++;
14            j++;
15        }
16    }
17    printf("\n");
18 }
19 int main(){
20     int c;
21     scanf("%d",&c);
22     while(c--){
23         int m,n;
24         scanf("%d",&m);
25         int a[m];
26         for(int i=0;i<m;i++){
27             scanf("%d",&a[i]);
28         }
29         scanf("%d",&n);
30         int b[n];
31         for(int i=0;i<n;i++){
32             scanf("%d",&b[i]);
33         }
34         find(a,m,b,n);
35     }
36 }
```

	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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