

## 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 %)

```
1 #include<stdio.h>
2 int main(){
3     int k;scanf("%d",&k);
4     while(k!=0){k--;
5         int a,b;scanf("%d",&a);
6         int arr[a];
7         for(int i=0;i<a;i++)scanf("%d",&arr[i]);
8         scanf("%d",&b);
9         int brr[b];
10        for(int i=0;i<b;i++)scanf("%d",&brr[i]);
11        for(int i=0;i<a;i++){
12            for(int j=0;j<b;j++){
13                if(arr[i]==brr[j]){
14                    printf("%d ",arr[i]);
15                    break;}}}}
16
```

	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

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