

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 {
4     int T;
5     scanf("%d", &T);
6
7     while(T--){
8         int N1, N2;
9         scanf("%d", &N1);
10        int arr1[N1];
11        for(int i=0;i < N1;i++)
12            scanf("%d", &arr1[i]);
13
14        scanf("%d", &N2);
15        int arr2[N2];
16        for(int i=0;i < N2;i++)
17            scanf("%d", &arr2[i]);
18
19        int i=0,j=0;
20        int found = 0;
21
22        while(i < N1 && j < N2){
23            if(arr1[i] < arr2[j])
24                i++;
25            else if(arr1[i] > arr2[j])
26                j++;
27            else{
28                printf("%d ", arr1[i]);
29                found = 1;
30                i++;
31                j++;
32            }
33        }
34        if(!found)
35            printf("No Intersection");
36        printf("\n");
37    }
38    return 0;
39 }
40 }
```

	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.