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:

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 %)

```c
#include<stdio.h>
int main()
{
    int t;
    scanf("%d",&t);

    while(t--){
        int n1,n2;
        scanf("%d",&n1);
        int arr1[n1];
        for(int i=0;i<n1;i++)
            scanf("%d",&arr1[i]);
        scanf("%d",&n2);
        int arr2[n2];
        for(int i=0;i<n2;i++)
            scanf("%d",&arr2[i]);

        int i=0,j=0;
        int found=0;

        while(i<n1 && j<n2){
            if(arr1[i]<arr2[j])
               i++;
            else if(arr1[i]>arr2[j])
               j++;
            else{
                printf("%d ",arr1[i]);
                found=1;
                i++;
                j++;
            }
        }
        if(!found)
           printf("No Intersection");
        printf("\n");


    }
    return 0;
}
```

	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.