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 %)

```
#include <stdio.h>
void Intersection(int arr1[], int N1, int arr2[], int N2) {
    int i, j;
    int found = 0;
    for (i = 0; i < N1; i++)
    {
        for (j = 0; j < N2; j++)
        {
            if (arr1[i] == arr2[j])
            {
                if (found == 0)
                {
                    printf("%d", arr1[i]);
                    found = 1;
                } else
                {
                    printf(" %d", arr1[i]);
                }
                break;
```

```
            }
        }
    }
    if (found == 0)
    {
        printf(" ");
    }
    printf("\n");
}
int main() {
    int T;
    scanf("%d", &T);
    while (T--)
    {
        int N1;
        scanf("%d", &N1);
        int arr1[N1];
        for (int i = 0; i < N1; i++)
        {
            scanf("%d", &arr1[i]);
        }
        int N2;
        scanf("%d", &N2);
        int arr2[N2];
        for (int i = 0; i < N2; i++)
        {
            scanf("%d", &arr2[i]);
        }
        Intersection(arr1,N1,arr2,N2);
    }
    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.

◄ 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

Jump to...

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