```
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

6123456

2 1 6

Output:

16

For example:

Input	Result
1	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    void find_intersection(int arr1[],int n1,int arr2[],int n2){
 3
         int i=0;
 4
         int j=0;
         while(i<n1 && j<n2){</pre>
 5 🔻
             if(arr1[i]<arr2[j]){</pre>
 6
 7
                  i++;
 8
             else if(arr1[i]>arr2[j]){
 9 ,
10
                 j++;
11
12
13
             else{
                  printf("%d ",arr1[i]);
14
15
```

```
16
                  j++;
17
18
             }
19
    }
20

  int main(){
21
        int T;
22
         scanf("%d",&T);
23
24
        while(T--){
             int n1,n2;
25
             scanf("%d",&n1);
26
27
             int arr1[n1];
28 ,
             for( int i=0;i<n1;i++){</pre>
29
                  scanf("%d",&arr1[i]);
30
31
             scanf("%d",&n2);
32
33
             int arr2[n2];
34
             for(int i=0;i<n2;i++){</pre>
35
                  scanf("%d", &arr2[i]);
36
37
38
             find_intersection(arr1,n1,arr2,n2);
39
40
41
         return 0;
42
43
```

	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 ►

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