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  void findIntersection(int arr1[], int n1, int arr2[], int n2) {
 3      int i = 0, j = 0;
 4      int first = 1;
 5      while (i < n1 && j < n2) {
 6          if (arr1[i] < arr2[j]) {
 7              i++;
 8          } else if (arr1[i] > arr2[j]) {
 9              j++;
10          } else {
11              if (first) {
12                  printf("%d", arr1[i]);
13                  first = 0;
14              } else {
15                  printf(" %d", arr1[i]);}
```

```
16                  i++;
17                  j++;
18              }
19          }
20      }
21 ▾ int main() {
22          int T;
23          scanf("%d", &T);
24
25 ▾      while (T--) {
26              int n1;
27              scanf("%d", &n1);
28              int arr1[n1];
29
30 ▾          for (int i = 0; i < n1; i++) {
31                  scanf("%d", &arr1[i]);
32              }
33              int n2;
34              scanf("%d", &n2);
35              int arr2[n2];
36
37 ▾          for (int i = 0; i < n2; i++) {
38                  scanf("%d", &arr2[i]);
39              }
40              findIntersection(arr1, n1, arr2, n2);
41              printf("\n");
42          }
43          return 0;
44      }
```

	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.

◄ 3-Print Intersection of 2 sorted arrays-O(m*n)Time Complexity,O(1) Space Complexity

Jump to...

5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity ►