Started on	Saturday, 1 November 2025, 8:32 PM
State	Finished
Completed on	Saturday, 1 November 2025, 9:37 PM
Time taken	1 hour 5 mins
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

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   int main()
3 ▾ {
4       int T;
5       scanf("%d", &T);
6       while (T--)
7 ▾     {
8           int n1, n2;
9           scanf("%d", &n1);
10          int a[n1];
11          for(int i = 0; i < n1; i++ )
12 ▾        {
13              scanf("%d", &a[i]);
14          }
```

```
15          scanf("%d", &n2);
16          int b[n2];
17          for(int i = 0; i < n2; i++)
18 ▾        {
19              scanf("%d", &b[i]);
20          }
21          int i = 0, j = 0;
22          int printed = 0;
23          while(i < n1 && j < n2)
24 ▾        {
25              if (a[i] == b[j])
26 ▾            {
27                  printf("%d ", a[i]);
28                  printed = 1;
29                  i++;
30                  j++;
31              }
32              else if (a[i] < b[j])
33 ▾            {
34                  i++;
35              }
36              else
37 ▾            {
38                  j++;
39              }
40          }
41          if(printed)
42              printf("\n");
43      }
44      return 0;
45 }
```

	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.