**RAJALAKSHMI
ENGINEERING
COLLEGE**

4
Vedhavyas Pavankalyan G L 2023-IT-A ⌄   **V2**

Started on	Sunday, 19 October 2025, 5:55 PM
State	Finished
Completed on	Sunday, 19 October 2025, 5:55 PM
Time taken	31 secs
Marks	1.00/1.00
Grade	**30.00** out of 30.00 (**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 %)

```c
 1  #include <stdio.h>
 2
 3  int main() {
 4      int T;
 5      scanf("%d", &T);
 6      while (T--) {
 7          int n1, n2;
 8          scanf("%d", &n1);
 9          int a[n1];
10          for (int i = 0; i < n1; i++)
11              scanf("%d", &a[i]);
12          scanf("%d", &n2);
13          int b[n2];
14          for (int i = 0; i < n2; i++)
```

```
15              scanf("%d", &b[i]);
16          int i = 0, j = 0;
17 ▾        while (i < n1 && j < n2) {
18 ▾            if (a[i] == b[j]) {
19                  printf("%d ", a[i]);
20                  i++;
21                  j++;
22 ▾            } else if (a[i] < b[j]) {
23                  i++;
24 ▾            } else {
25                  j++;
26              }
27          }
28          printf("\n");
29      }
30      return 0;
31  }
```

	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.

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