**RAJALAKSHMI
ENGINEERING
COLLEGE**

🔔⁷ **RAKSHITA N 2024-IT** ⌄   **R2**

Started on	Tuesday, 18 November 2025, 11:05 AM
State	Finished
Completed on	Tuesday, 18 November 2025, 11:06 AM
Time taken	1 min 10 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
7      while (T--) {
8          int N1;
9          scanf("%d", &N1);
10         int A[N1];
11         for (int i = 0; i < N1; i++)
12             scanf("%d", &A[i]);
13
14         int N2;
15         scanf("%d", &N2);
16         int B[N2];
17         for (int i = 0; i < N2; i++)
18             scanf("%d", &B[i]);
19
20         int i = 0, j = 0;
21         while (i < N1 && j < N2) {
22             if (A[i] == B[j]) {
```

```
22             if (A[i] == B[j]) {
23                 printf("%d ", A[i]);
24                 i++;
25                 j++;
26             } else if (A[i] < B[j]) {
27                 i++;
28             } else {
29                 j++;
30             }
31         }
32         printf("\n");
33     }
34
35     return 0;
36 }
37
```

	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.

Back to Course