RAJALAKSHMI
ENGINEERING
COLLEGE

🔔 7 **JAYARAMAN S 2024-CSE** ⌄   **J2**

Started on	Monday, 3 November 2025, 3:28 AM
State	Finished
Completed on	Monday, 3 November 2025, 3:29 AM
Time taken	42 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 %)

```
 1  #include <stdio.h>
 2
 3  int main() {
 4      int T;
 5      scanf("%d", &T);
 6
 7      while (T--) {
 8          int n1, n2;
 9          scanf("%d", &n1);
10          int arr1[n1];
11          for (int i = 0; i < n1; i++)
12              scanf("%d", &arr1[i]);
13
14          scanf("%d", &n2);
15          int arr2[n2];
16          for (int i = 0; i < n2; i++)
17              scanf("%d", &arr2[i]);
18
19          // Find intersection (O(m * n))
20          for (int i = 0; i < n1; i++) {
21              for (int j = 0; j < n2; j++) {
22                  if (arr1[i] == arr2[j]) {
```

```
22
23                 printf("%d ", arr1[i]);
24                 break;   // move to next element in arr1
25             }
26         }
27     }
28     printf("\n");
29 }
30
31    return 0;
32 }
33
```

	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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