



Started on	Wednesday, 8 October 2025, 3:23 PM
State	Finished
Completed on	Wednesday, 8 October 2025, 3:51 PM
Time taken	27 mins 59 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

6123456

216

Output:

16

For example:

Input	Result	
1	10 57	
3 10 17 57		
6		
2 7 10 15 57 246		

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 1
 2
    void findIntersection(int arr1[], int n1, int arr2[], int n2) {
 3 ▼
        int i = 0, j = 0;
5 •
        while (i < n1 && j < n2) \{
 6
            if (arr1[i] == arr2[j]) {
                printf("%d ", arr1[i]);
 7
 8
                i++;
9
                 j++;
10
            } else if (arr1[i] < arr2[j]) {</pre>
11
                i++;
12
            } else {
13
                j++;
14
15
        printf("\n");
16
17
18
19
    int main() {
20
21
        scanf("%d", &T);
22
```

```
23
         while (T--) {
24
             int n1;
25
             scanf("%d", &n1);
26
             int arr1[n1];
27
             for (int i = 0; i < n1; i++)
                 scanf("%d", &arr1[i]);
28
29
30
             int n2;
             scanf("%d", &n2);
31
32
             int arr2[n2];
             for (int i = 0; i < n2; i++)
    scanf("%d", &arr2[i]);</pre>
33
34
35
36
             findIntersection(arr1, n1, arr2, n2);
37
38
39
         return 0;
40
```

	Input	Expected	Got	
~	1	10 57	10 57	~
	3 10 17 57			
	6			
	2 7 10 15 57 246			
~	1	1 6	1 6	~
	6 1 2 3 4 5 6			
	2			
	1 6			

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

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