RAJALAKSHMI ENGINEERING COLLEGE

NEIL DANIEL A 2024-CSE

N2

Started on	Tuesday, 14 October 2025, 7:21 PM
State	Finished
Completed on	Tuesday, 14 October 2025, 7:27 PM
Time taken	6 mins 8 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
#include <stdio.h>
int main() {
    int T, N1, N2, i, j;
    scanf("%d", &T);
    while(T--) {
        scanf("%d", &N1);
        int a[N1];
        for(i=0; i<N1; i++) scanf("%d", &a[i]);
        scanf("%d", &N2);
        int b[N2];
        for(i=0; i<N2; i++) scanf("%d", &b[i]);
        for(i=0; i<N1; i++) {
            for(j=0; j<N2; j++) {
                if(a[i] == b[j]) {
                    printf("%d ", a[i]);
                    b[j] = -1;
                    break;
                }
            }
        }
        printf("\n");
    }
```

```
    return 0;
}

```

	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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