CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

Quiz navigation

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✓

Finish review

Started on	Tuesday, 5 November 2024, 1:42 PM
State	Finished
Completed on	Tuesday, 5 November 2024, 1:57 PM
Time taken	15 mins 23 secs
Marks	1.00/1.00
Grade	**30.00** out of 30.00 (**100**%)

Question 1

Correct

Mark 1.00 out of 1.00

⚑ Flag question

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;
    scanf("%d",&t);
    scanf("%d",&n1);
    int arr1[n1];
    for(int i=0;i<n1;i++){
        scanf("%d",&arr1[i]);
    }
    scanf("%d",&n2);
    int arr2[n2];
    for(int i=0;i<n2;i++){
        scanf("%d",&arr2[i]);
    }

    for(int i=0;i<n1;i++){
        for(int j=0;j<n2;j++){
            if(arr1[i]==arr2[j]){
                printf("%d ",arr1[i]);
            }
        }
    }
}
```

```
26 |}
```

	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.