Quiz navigation

1

Finish review

Started on	Friday, 25 October 2024, 2:23 PM
State	Finished
Completed on	Friday, 25 October 2024, 2:32 PM
Time taken	9 mins 21 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,an,bn;
    scanf("%d",&t);
    scanf("%d",&an);
    int a[an];
    for(int i=0;i<an;i++)
        scanf("%d",&a[i]);
    scanf("%d",&bn);
    int b[bn];
    for(int i=0;i<bn;i++)
        scanf("%d",&b[i]);
    int i=0;
    int j=0;
    while(i<an && j<bn){
        if(a[i]==b[j]){
            printf("%d ",a[i]);
            i++;
            j++;
        }
        else if(a[i]>b[j]){
            j++;
        }
        else{
            i++;
        }
    }
}
```

	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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