REC-CIS



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

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Quiz navigation



Finish review

Status Finished Started Tuesday, 22 April 2025, 3:00 PM Completed Tuesday, 22 April 2025, 3:06 PM **Duration** 6 mins 25 secs Marks 1.00/1.00 **Grade 30.00** out of 30.00 (**100**%)

Question 1 Correct Mark 1.00 out of

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.

- · 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

6123456

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>
        int main() {
             int k;
scanf("%d", &k);
             for (int x = 0; x < k; x++) {
   int m, n;
   scanf("%d", &m);
                    int a[m];
                  for (int i = 0; i < m; i++) {
    scanf("%d", &a[i]);</pre>
10
11
12
                    scanf("%d", &n);
                   int b[n];
for (int i = 0; i < n; i++) {
    scanf("%d", &b[i]);</pre>
14
16
                    for (int i = 0; i < m; i++) {
18
                          for (int j = 0; j < n; j++) {
   if (a[i] == b[j]) {
     printf("%d ", a[i]);
}</pre>
20
                                      break;
22
23
24
25
26
                    printf("\n");
27
28
             return 0:
29
30
```

Input	Expected	Got	
1	10 57	10 57	
3 10 17 57 6			
2 7 10 15 57 246			
1	1 6	1 6	Г
6 1 2 3 4 5 6	- 0	- 0	
2			
1 6			

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

4-Print Intersection of 2 sorted arraysO(m+n)Time Complexity,O(1) Space Complexity