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| Dashb... / Mycou... | / CS23331-DAA-202... / Competitive Proua... | / 4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,Q(1)S... |
| Started on | Tuesday, 5 November 2024, 2:51 PM |  |
| State | Finished |  |
| Completed on | Tuesday, 5 November 2024, 2:55 PM |  |
| Time taken | 3 mins 33 secs |  |
| Marks | I .00/1.00 |  |
| Grade | 30.00 out of 30.00 (100%) |  |

Question

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:

Line 1 contains N 1, followed by NI 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

# 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 %)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1  2  3  4  5  8  9  10  11  12  13  14  15 | #include <stdio.h>  void findlntersection(int arrl[], int nl, int i  0;  while (in2) { if (arrl[i] arr2[j] ) { i++  } else if (arr2[j] arrl[i] ) {  } else { printf("%d arrl[i] ) ; | | | | | int arr2[], | int n2) { |
| 16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46 | | int | printf(  main() { int T; scanf(  " , while (T--) int nl,  scanf("%d", &nl) int arrl[nl]; for (int i    nl; i+ scanf("%d", &arrl[i] );  scanf("%d", &n2) int arr2[n2]; for (int i   n2; i+ scanf("%d", &arr2[i] );  findlntersection(arrl, nl,  return 0; | arr2, | n2); | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | Input | Expected | Got |  | |  | 1  3 10 17 57  6  2 7 10 15 57 246 | 10 57 | 10 57 |  | |  | 1  6 1  5 6  2  I 6 |  |  |  |   Passed all tests! | | | | | | | |

Correct

Marks for this submission: 1.00/1.00.

< 3-Print Intersection of 2 sorted arrays-O(m\*n)Time Complexity,O(1) Space Complexity

Jump to...

5-Pair with Difference-O(n A 2)Time Complexity,O(1) Space Complexity