



CS23331-DAA-2024-CSE / 1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Complexity



1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Complexity

Started on	Friday, 24 October 2025, 8:56 PM
State	Finished
Completed on	Friday, 24 October 2025, 9:06 PM
Time taken	10 mins 9 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100 %)

Question 1 | Correct | Mark 1.00 out of 1.00 | Flag question

Find Duplicate in Array.

Given a read only array of n integers between 1 and n, find one number that repeats.

Input Format:

First Line - Number of elements

n Lines - n Elements

Output Format:

Element x - That is repeated

For example:

Input	Result
5	1
1 1 2 3 4	

Answer: (penalty regime: 0 %)

1 #include<stdio.h>
2 * int main() {

	Input	Expected	Got	
~	11 10 9 7 6 5 1 2 3 8 4 7	7	7	*
~	5 1 2 3 4 4	4	4	*
~	5	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / 2-Finding Duplicates-O(n) Time Complexity, O(1) Space Complexity

2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

Started on	Friday, 24 October 2025, 9:15 PM
State	Finished
Completed on	Friday, 24 October 2025, 9:23 PM
Time taken	8 mins 7 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | Flag question

Find Duplicate in Array.

Given a read only array of n integers between 1 and n, find one number that repeats.

Input Format:

First Line - Number of elements

n Lines - n Elements

Output Format:

Element x - That is repeated

For example:

Input	Result
5	1
1 1 2 3 4	

Answer: (penalty regime: 0 %)

1 #include<stdio.h>
2 + int main() {

	Input	Expected	Got	
~	11 10 9 7 6 5 1 2 3 8 4 7	7	7	*
•	5 1 2 3 4 4	4	4	*
~	5	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / 3-Print Intersection of 2 sorted arrays-O(m*n)Time Complexity,O(1) Space Complexity

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

Started on	Friday, 24 October 2025, 10:11 PM
State	Finished
Completed on	Friday, 24 October 2025, 10:55 PM
Time taken	44 mins 2 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

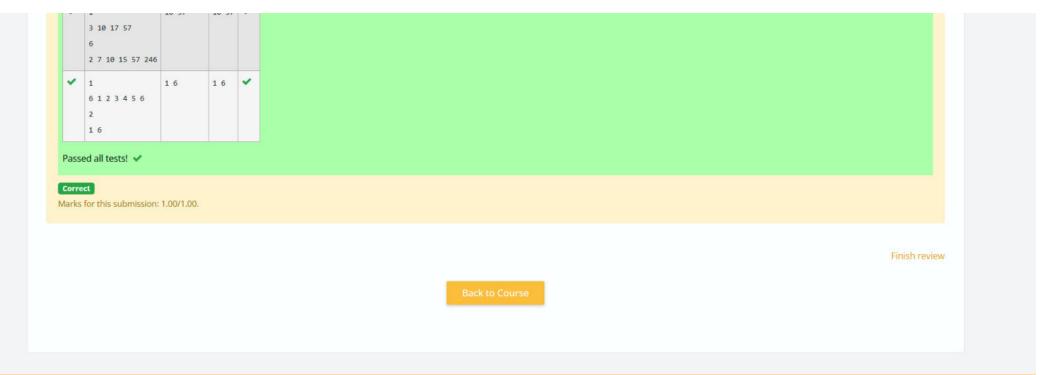
Output:

For example:

Input	Result
1	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
J	1	19 57	10 57	,







CS23331-DAA-2024-CSE / 4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,O(1) Space Complexity

区

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

Started on	Saturday, 25 October 2025, 7:45 AM
State	Finished
Completed on	Saturday, 25 October 2025, 8:00 AM
Time taken	14 mins 53 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:

For example:

Input	Result
1	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2 + int main() {
        scanf("%d", &T);
            int N1;
            scanf("%d", &N1);
            int arr1[N1];
            for(int i = 0; i < N1; i++) {
    scanf("%d", &arr1[i]);
            int N2;
            scanf("%d", &N2);
            int arr2[N2];
            for(int i = 0; i < N2; i++) {
                scanf("%d", &arr2[i]);
            int i = 0, j = 0;
            while(i < N1 && j < N2) {
20 -
                if(arr1[i] == arr2[j]) {
                    printf("%d ", arr1[i]);
                else if(arr1[i] <arr2[j]) {
30
```

	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	16	*

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / 5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity

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

Started on	Saturday, 25 October 2025, 8:08 AM
State	Finished
Completed on	Saturday, 25 October 2025, 8:25 AM
Time taken	17 mins 2 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | Flag question

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[j] - A[i] = k, i! = j.

Input Format:

First Line n - Number of elements in an array

Next n Lines - N elements in the array

k - Non - Negative Integer

Output Format:

1 - If pair exists

0 - If no pair exists

Explanation for the given Sample Testcase:

YES as 5 - 1 = 4

So Return 1.

For example:

.....

```
3 1
1 3 5
4
```

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	3 1 3 5	1	1	~
~	10 1 4 6 8 12 14 15 20 21 25 1	1	1	*
~	10 1 2 3 5 11 14 16 24 28 29 0	0	0	~
~	10 0 2 3 7 13 14 15 20 24 25 10	1	1	~

Passed all tests! 🗸

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / 6-Pair with Difference -O(n) Time Complexity, O(1) Space Complexity

6-Pair with Difference -O(n) Time Complexity,O(1) Space Complexity

Started on	Saturday, 25 October 2025, 8:33 AM
State	Finished
Completed on	Saturday, 25 October 2025, 8:40 AM
Time taken	6 mins 54 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100 %)

Question 1 | Correct | Mark 1.00 out of 1.00 | Flag question

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[j] - A[i] = k, i! = j.

Input Format:

First Line n - Number of elements in an array

Next n Lines - N elements in the array

k - Non - Negative Integer

Output Format:

1 - If pair exists

0 - If no pair exists

Explanation for the given Sample Testcase:

YES as 5 - 1 = 4

So Return 1.

For example:

.....

```
3 1
1 3 5
4
```

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	3 1 3 5 4	1	1	~
~	10 1 4 6 8 12 14 15 20 21 25 1	1	1	~
~	10 1 2 3 5 11 14 16 24 28 29 0	ð	0	*
,	10	1	1	,

