



Problem 5: Finding Complex...

Divide and Conquer

1-Number of Zeros in a Give...

2-Majority Element

3-Finding Floor Value

4-Two Elements sum to x

5-Implementation of Quick ...

Greedy Algorithms

1-G-Coin Problem

2-G-Cookies Problem

3-G-Burger Problem

4-G-Array Sum max problem

5-G-Product of Array eleme...

Dynamic Programming

1-DP-Playing with Numbers

2-DP-Playing with chessboard

3-DP-Longest Common Sub...

4-DP-Longest non-decreasi...

Competitive Programming

1-Finding Duplicates-O(n^2)...

2-Finding Duplicates-O(n) TL...

3-Print Intersection of 2 sort...

4-Print Intersection of 2 sort...

5-Pair with Difference Close...

RAJALAKSHMI  
ENGINEERING  
COLLEGE

JAI VARDHAN U L 2024-CSE

J2

Dashboard

My courses

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, 1:48 PM

State

Finished

Completed on

Friday, 24 October 2025, 1:51 PM

Time taken

2 mins 35 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 2 3 4	1

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     for(int i=0;i<n;i++){
10        for(int j=i+1;j<n;j++){
11            if(arr[i]==arr[j]){
12                printf("%d",arr[i]);
13                break;
14            }
15        }
16    }
17 }
```

	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 2 3 4	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Data retention summary

Problem 5: Finding Complex...

Divide and Conquer

1-Number of Zeros in a Give...

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4-Print Intersection of 2 sort...

5-Print with Difference Print...

JAI VARDHAN U L 2024-CSE

J2

Dashboard

My courses

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

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

Started on

Friday, 24 October 2025, 1:51 PM

State

Finished

Completed on

Friday, 24 October 2025, 2:02 PM

Time taken

11 mins 24 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 %)  

```
1 #include<stdio.h>
2 int main(){
3     int t;
4     scanf("%d",&t);
5     int n;
6     scanf("%d",&n);
7     int arr1[n];
8     for(int i=0;i<n;i++){
9         scanf("%d",&arr1[i]);
10    }
11    int m;
12    scanf("%d",&m);
13    int arr2[m];
14    for(int j=0;j<m;j++){
15        scanf("%d",&arr2[j]);
16    }
17    for(int i=0;i<n;i++){
18        for(int j=0;j<m;j++){
19            if(arr1[i]==arr2[j]){
20                printf("%d ",arr1[i]);
21            }else{
22                continue;
23            }
24        }
25    }
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.

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Quiz navigation

1

✓

Finish review

Data retention summary



Dashboard

My courses

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

Friday, 24 October 2025, 2:08 PM

State

Finished

Completed on

Friday, 24 October 2025, 2:27 PM

Time taken

18 mins 44 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  $A[i] - A[j] = k$ ,  $i \neq j$ .

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:

Input	Result
3 1 3 5 4	1

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdbool.h>
3 int main(){
4     int n;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++){
8         scanf("%d",&arr[i]);
9     }
10    int k;
11    scanf("%d",&k);
12    bool found=false;
13    for(int i=0;i<n;i++){
14        for(int j=i+1;j<n;j++){
15            if(arr[j]-arr[i]==k){
16                found=true;
17                break;
18            }
19        }
20        if(found)break;
21    }
22    if(found){
23        printf("1");
24    }else{
25        printf("0");
26    }
27 }
```

	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	0	0	✓
✓	10 0 2 3 7 13 14 15 20 24 25 10	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Data retention summary

DashboardMy courses

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

Friday, 24 October 2025, 2:27 PM

State

Finished

Completed on

Friday, 24 October 2025, 2:46 PM

Time taken

19 mins 19 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  $A[i] - A[j] = k$ ,  $i \neq j$ .

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:

Input	Result
3	1
1 3 5	
4	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdbool.h>
3 int main(){
4     int n;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++){
8         scanf("%d",&arr[i]);
9     }
10    int k;
11    scanf("%d",&k);
12    int i=0;
13    int j=1;
14    while(j<n){
15        int diff=arr[j]-arr[i];
16        if(diff==k && i!=j){
17            printf("1");
18            return 0;
19        }else if(diff<k){
20            j++;
21        }else{
22            i++;
23            if(i==j)j++;
24        }
25    }
26    printf("0");
27 }
```

	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	0	0	✓
✓	10 0 2 3 7 13 14 15 20 24 25 10	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Data retention summary