



SCSA2602-Compiler Design Lab

Dashboard / Courses / SCHOOL OF COMPUTING / ODD SEMESTER / Compiler Lab / VLP - 2021-22 / Ex-3-Section C1,D1 28.12.2021

Started on Monday, 31 January 2022, 2:30 PM

State Finished

Completed on Monday, 31 January 2022, 2:36 PM

Time taken 5 mins 38 secs

Marks 1.00/1.00

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Write a c program for count inversion in a given array

TEST CASE 1 :

Input: arr[] = {8, 4, 2, 1}

Output: The number of inversion are: 6

TEST CASE 2 :

Input: arr[] = { 1, 20, 6, 4, 5 }

Output: The number of inversion are: 5

Quiz navigation



Finish review



Output: The number of inversion are: 5

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main()
4 {
5
6 int arr[100],c = 0,n;
7
8 scanf("%d",&n);
9 for (int i = 0; i < n ; i++)
10 {
11     scanf("%d",&arr[i]);
12 }
13
14 for (int i = 0; i < n - 1; i++)
15 {
16     for (int j = i + 1; j < n; j++)
17     {
18         if (arr[i] > arr[j])
19             c++;
20     }
21 }
22 printf("The number of inversions are %d",c);
```

Test	Input	Expected	Got
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```
8 scanf("%d",&n);
9 for (int i = 0; i < n ; i++)
10 {
11     scanf("%d",&arr[i]);
12 }
13
14 for (int i = 0; i < n - 1; i++)
15 {
16     for (int j = i + 1; j < n; j++)
17     {
18         if (arr[i] > arr[j])
19             c++;
20     }
21 }
22 printf("The number of inversions are %d",c);
23 return 0;
24 }
```

Test	Input	Expected	Got	
✓ Test case 1	5 1 20 6 4 5	The number of inversions are 5	The number of inversions are 5	✓

Passed all tests! ✓

Submit

Marks for this submission: 1.00/1.00.

Finish review