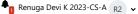
REC-CIS







Dashboard / My courses / CS23331-DAA-2023-CS / Divide and Conquer / 1-Number of Zeros in a Given Array

Quiz navigation



Finish review

```
        Status
        Finished

        Started
        Wednesday, 19 March 2025, 10:57 PM

        Completed
        Wednesday, 19 March 2025, 11:01 PM

        Duration
        4 mins 12 secs

        Marks
        1.00/1.00

        Grade
        10.00 out of 10.00 (100%)
```

Question 1 Correct Problem Statement Given an array of 1s and 0s this has all 1s first followed by all 0s. Aim is to find the number of 0s. Write a program using Divide and Conquer to Count

Mark 1.00 out of 1.00

| Input Format | First Line Contains Integer m – Size of array

the number of zeroes in the given array.

Next m lines Contains m numbers – Elements of an array

Output Format

First Line Contains Integer – Number of zeroes present in the given array.

```
Answer: (penalty regime: 0 %)
```

```
1 #include<stdio.h>
                 countzeroes(int arr[],int low,int high){
             if(low ==high){
    return 1-arr[low];
              fint mid = (low + high )/2;
int leftzeroes = countzeroes(arr,low,mid);
int rightzeroes=countzeroes(arr,mid+1,high);
return leftzeroes + rightzeroes;
10
11
12
        int main(){
               int n;
//printf("enter the no.of elements");
scanf("%d",&n);
13
14
15
              scanf("%c",%n);
int arr[n];
//printf("enter the array element (1s followed by 0s) : ");
for(int i=0;i<n;i++){
    scanf("%d",%arr[i]);</pre>
16
17
18
19
20
21
               int zeroes = countzeroes(arr,0,n-1);
printf("%d\n",zeroes);
return 0;
22
23
```

Input	Expected	Got
5	2	2
1		
1		
1		
0		
0		
10	0	0
1		
1		
1		
1		
1		
1		
1		
1		
1		
1		
8	8	8
0		
0		
0		
0		
0		
0		
0		
0		
17	2	2
1		
1		
1		
1		
1		
1		
1		
1		
1		
1		
1		
1		
1		
0		
0		

Passed all tests

Correct Marks for this submission:	1.00/

Finish review

→ Problem 5: Finding Complexity using counter method

Jump to... \$

2-Majority Element ►