

**RAJALAKSHMI** 

**ENGINEERING** 

CS23331-DAA-2024-CSE / 1-Number of Zeros in a Given Array

## 1-Number of Zeros in a Given Array

Started on	Friday, 19 September 2025, 2:07 PM
State	Finished
Completed on	Saturday, 20 September 2025, 8:36 PM
Time taken	1 day 6 hours
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

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

## **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 the number of zeroes in the given array. Input Format

First Line Contains Integer m – Size of 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 %)

```
6 7 8 9 10 11 12 13 14 15 16 17 18 } 19 20 1 { 22 23 24 25 26 7 28 29 30 31 32 }
                      int mid=(low+high)/2;
if(arr[mid]==0 && (mid==0|| arr[mid-1]==1)){
    return n-mid;
                       else if (arr[mid]==0){
| return dac(arr,low,mid-1,n);
                      int n;
scanf("%d",&n);
int arr[n];
for(int i=0;i<n;i++)</pre>
                       int ans=dac(arr,0,n-1,n);
printf("%d",ans);
```

	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	~

