

VISAANTH M 2024-IT**V2****Started on** Wednesday, 17 September 2025, 1:36 PM**State** Finished**Completed on** Wednesday, 17 September 2025, 1:54 PM**Time taken** 18 mins 15 secs**Marks** 1.00/1.00**Grade** **10.00** out of 10.00 (**100%**)

**Question 1** | Correct Mark 1.00 out of 1.00**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 %)

```

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

	<b>Input</b>	<b>Expected</b>	<b>Got</b>	
✓	5 1 1 1 0 0	2	2	✓

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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