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| Started on | Wednesday, 17 September 2025, 8:22 AM |
| State | Finished |
| Completed on | Wednesday, 17 September 2025, 8:27 AM |
| Time taken | 5 mins 9 secs |
| Marks | 1.00/1.00 |
| Grade | 10.00 out of 10.00 (100%) |

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 m;
4     scanf("%d",&m);
5     int a[m];
6     int c=0;
7     for (int i=0;i<m;i++){
8         scanf("%d",&a[i]);
9         if(a[i]==0){
10             c++;
11         }
12     }
13     printf("%d",c);
14 }
```

| | Input | Expected | Got | |
|---|---|----------|-----|---|
| ✓ | 5 1 1 1 0 0 | 2 | 2 | ✓ |
| ✓ | 10 1 1 1 1 1 1 1 1 1 | 0 | 0 | ✓ |

| | Input | Expected | Got | |
|---|---|-----------------|------------|---|
| ✓ | 8 0 0 0 0 0 0 0 0 | 8 | 8 | ✓ |
| ✓ | 17 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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