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<b>Started on</b>	Thursday, 12 September 2024, 10:19 AM
<b>State</b>	Finished
<b>Completed on</b>	Thursday, 12 September 2024, 10:37 AM
<b>Time taken</b>	17 mins 50 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	<b>10.00</b> out of 10.00 ( <b>100%</b> )

## 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 Zeros(int arr[], int start, int end);
3  int Zeros(int arr[], int start, int end) {
4      if(start > end)
5          return 0;
6      int mid = (start + end) / 2;
7      if (arr[mid] == 0) {
8          if(arr[mid - 1] != 0){
9              int rc = end - mid + 1;
10             return rc;
11         }
12         else{
13             int lc = Zeros(arr, 0 , mid-1);
14             int rc = end - mid + 1;
15             return lc+rc;
16         }
17     }
18     return Zeros(arr, mid + 1, end);
19 }
20 int main() {
21     int n;
22     scanf("%d",&n);
23     int arr[n];
24     for(int i=0;i<n;i++)
25         scanf("%d",&arr[i]);
26     int zeroCount = Zeros(arr,0, n-1);
27     printf("%d", zeroCount);
28     return 0;
29 }
30

```

	Input	Expected	Got	
✓	5 1 1 1 0 0	2	2	✓

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ 5-G-Product of Array elements-Minimum

Jump to...

2-Majority Element ▶