Started on	Friday, 30 August 2024, 1:37 PM
State	Finished
Completed on	Friday, 30 August 2024, 2:46 PM
Time taken	1 hour 8 mins
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 %)

```c
#include<stdio.h>
int main()
{
    int n,temp1=-1,temp2=-1;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    int x=(n-1)/2;
    for(int i=0;i<x;i++)
    {
        if(arr[i]==0)
        {
            temp1=i;
            break;
        }
        else if(arr[x-i]!=0 && arr[x+i]==0)
        {
            temp2=x+i;
            break;
        }
    }
    if(temp1!=-1)
    {
        printf("%d",n-temp1);
    }
    else if(temp2!=-1)
```

```
30      {
31          printf("%d",n-temp2);
32      }
33      else
34      {
35          printf("%d",temp1+1);
36      }
37  }
```

	Input	Expected	Got	
✔	5 1 1 1 0 0	2	2	✔
✔	10 1 1 1 1 1 1 1 1 1 1	0	0	✔
✔	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 1 1 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 ▶