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Started on	Thursday, 29 August 2024, 11:06 AM
State	Finished
Completed on	Thursday, 12 September 2024, 10:06 AM
Time taken	13 days 22 hours
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 calc(int arr[],int size,int i) {
3      if (i>=size) {
4          return 0;
5      }
6      int j=(arr[i]==0)?1:0;
7      return j+calc(arr,size,i+1);
8  }
9  int main() {
10     int size;
11     scanf("%d",&size);
12     int arr[size];
13     for (int i=0;i<size;i++)
14         scanf("%d",&arr[i]);
15     int ze=calc(arr,size,0);
16     printf("%d",ze);
17     return 0;
18 }
```

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

	Input	Expected	Got	
✓	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 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 ▶