

Recursion - Sum of Array Elements

Problem

Submissions

Leaderboard

Discussions

Write a program to find the sum of array elements using recursion.

Input Format

- The Input consists of one integer and a set of integers.
- The first integer corresponds to the number of array elements.
- The second Input corresponds to the array elements.

Constraints

NA

Output Format

The output consists of one integer that corresponds to the sum of the array elements.

Sample Input 0

```
5
1
2
3
4
5
```

Sample Output 0

```
15
```

Explanation 0

Here the sum of the array elements(1+2+3+4+5) is 15 and hence the output is 15.

Sample Input 1

```
2
1
2
```

Sample Output 1

```
3
```

f

t

in

Submissions: 445

Max Score: 100

Difficulty: Medium

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☆☆☆☆☆

[More](#)

Explanation 1

Here the sum of array elements (1+2) is 3 and hence the output is 3.

C

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int sum(int arr[],int n)
7 {
8     if (n<0)
9     {
10         return 0;
11     }
12     return(sum(arr,n-1) + arr[n-1]);
13 }
14 int main()
15 {
16     int n;
17     scanf("%d",&n);
18     int arr[n];
19     for(int i=0;i<n;i++){
20         scanf("%d",&arr[i]);
21     }
22     printf("%d", sum(arr, n));
23     return 0;
24 }
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ [Test against custom input](#)

Run Code

Submit Code

Testcase 0 

Testcase 1 

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
5
1
2
3
4
5
```

Your Output (stdout)

```
15
```

Expected Output

```
15
```

