

## Week 4: Assignment 4 - Question 1

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### Description

Given an array of positive integers, write a C Program to output the sum of the elements that are above the mean.

Given an array  $[a_1, a_2 \dots a_n]$ , the mean of the array is defined as  $\mu = \frac{\sum_{i=1}^n a_i}{n}$ .

### Input

The first line contains the size of the array.

The second line contains the contents of the array.

### Output

Output the sum of elements in the array which are greater than or equal to the mean.

Note : The size of the array is always smaller than 20.

Sample input 1

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

Sample Output 1

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12

Explanation

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The mean of the array is  $(1+2+3+4+5)/5 = 3$ .

The elements 3,4,5 are greater than or equal to 3, and  $3+4+5 = 12$ .

Sample input 2

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```
8
1 8 2 1 6 5 9 4
```

Sample Output 2

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28

Explanation

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The mean is 4.5 and the numbers greater than or equal to this value in the array are 8,6,5,9  
 $8+6+5+9 = 28$ .