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382



STUDENT REPORT

DETAILS

DASARI KEERTHI

Roll Number >

3BR23AI039

EXPERIMENT

Ťitle

A1039

MINIMUM ARRAY SUM

Description

Paul is given an array A of length N. He must perform the following Operations on the array sequentially:

8823

- * Choose any two integers from the array and calculate their average.
- * If an element is less than the average, update it to 0. However, if the element is greater than or equal to the average, he need not update it.

Your task is to help Paul find and return an integer value, representing the minimum possible sum of all the elements in the array by performing the above operations.

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Note: An exact average should be calculated, even if it results in a decimal.

Input Format:

input1: An integer value N, representing the size of the array A.

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input2: An integer array A.

Output Format:

Return an integer value, representing the minimum possible sum of all the elements in the array by

38R23A1039 3BR23A1039 3BR23A1039 3BR23A1039 3BR23A1039

Sample Input

12345

Sample Output

5

38223 38R23A10393BR23h Source Code: 38R2.

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```
3BR23AI039-Minimum Array sum
    def min_sum(arr):
        arr.sort(reverse=True)
        total = arr[0]
        avg = arr[0]
        for i in range(1, len(arr)):
            if arr[i] < avg:</pre>
                 break
            total += arr[i]
            avg = (total) / (i + 1)
        return total
    n = int(input())
    arr = list(map(int, input().split()))
    result = min_sum(arr)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 %
```

file:///C:/Users/ACER/Desktop/11.html 2/2