

# DETAILS

### Name $\mathcal{N}$

PREETHI K

#### Roll Number <

3BR23CS120

#### **EXPERIMEN**

#### Title

MINIMUM ARRAY SUM

#### **Description**

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

- \* 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.

**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.

**input2:** An integer array A.

#### **Output Format:**

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

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35320 3BR23C5120 3BR23C5120 3BR23C5120

28F2BGSBF2BGSBF2BGSBF2BGSBF2BGSBF

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#### Sample Input

12345

#### **Sample Output**

5

## 3BR235 38R23C51203BR23C Source Code: 3BR2?

```
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())
                                                                                                         265,50 38R23CE
    arr = list(map(int, input().split()))
    result = min_sum(arr)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 \%
```