STUDENT REPORT

DÉTAILS

S RUFEDA BANU

Roll Number

TEMPBTech-CSE071

EXPERIMENT

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.

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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

Sample Input

5

12345

Sample Output

5

Source Code:

```
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)
5 / 5 Test Cases Passed | 100 \%
```

RESULT