002



STUDENT REPORT

506

DETAILS

HARSHITA S S

Roll Number

3BR23CS062

EXPERIMENT

ි Title

MINIMUM ARRAY SUM

Description

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

30

- * 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.

3C5062 3BR23C5062 3BR23C5062

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

12345

Sample Output

38223 Source Code: 3BP2:

```
3BR23CS062-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)
                                                                                                                        2C5062 3BR23C5
RESULT
  5 / 5 Test Cases Passed | 100 %
```