



# STUDENT REPORT

## DETAILS

Name

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Roll Number

TEMPBTech-EEE116

## 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:

- \* 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

**Sample Input**

5  
1 2 3 4 5

**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:
            break
        total += arr[i]

    return total

n = int(input())
arr = list(map(int, input().split()))

result = min_sum(arr)
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %