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)
                                                                                                               ECE03 411823E
  print(result)
5 / 5 Test Cases Passed | 100 \%
```

RESULT

NBZS