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5A02	STUDENT REPORT	
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ADSAO	22BI24DS402-T] NDS
0	EXPERIMENT A PART AND THE ARCT TO A PART AND SARE T	281
V	MINIMUM ARRAY SUM	CAOZÍ
124054	MINIMUM ARRAY SUM Description (181740) SAPETER ARRAY SUM PROPERTY OF THE PR	,5
	Paul is given an array A of length N. He must perform the following Operations on the array sequentially:	228/1
2	* Choose any two integers from the array and calculate their average.	
OV. N	* 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.	,DSA02
2B12AD	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.	××
181	Note: An exact average should be calculated, even if it results in a decimal.	22817
	Input Format:	?
SAOZÍ	input1: An integer value N, representing the size of the array A.	<
SX	input2: An integer array A.	,2AD5AO
	Output Format:	, V
228124	Return an integer value, representing the minimum possible sum of all the elements in the array by	28
	Sample Input	52. 72. 22. R
2	5 12345	
,05A02	Sample Output	N BER
2281	5	NA PL
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	228 2 282 2 282 202 20	BARAST

```
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)
                                                                                                      05401 22812A5
   print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```