Logo STUDENT REPORT DETAILS N 3677364039 Roll Number 3CRO ,08º 3BR23CA089 EXPERIMENT 3 3 Ral Title MINIMUM ARRAY SUM Description 2000 89 Paul is given an array A of length N. He must perform the following Operations on the array sequentially: schoon ne \* Choose any two integers from the array and calculate their average. 4039 362° \* 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: 5R23CA085 input1: An integer value N, representing the size of the array A. input2: An integer array A. Output Format: 2324039 Return an integer value, representing the minimum possible sum of all the elements in the array by Sample Input 1089 36F 12345 Sample Output 382736 Source Code: 38P2

```
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)
RESULT
 5 / 5 Test Cases Passed \ 100 %
               2CROS
```