



Mini-Max Sum ☆

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Problem

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Given five positive integers, find the minimum and maximum values that can be calculated by summing exactly four of the five integers. Then print the respective minimum and maximum values as a single line of two space-separated long integers.

For example, $arr = [1, 3, 5, 7, 9]$. Our minimum sum is $1 + 3 + 5 + 7 = 16$ and our maximum sum is $3 + 5 + 7 + 9 = 24$. We would print

16 24

Function Description

Complete the `miniMaxSum` function in the editor below. It should print two space-separated integers on one line: the minimum sum and the maximum sum of 4 of 5 elements.

`miniMaxSum` has the following parameter(s):

- `arr`: an array of 5 integers

Input Format

A single line of five space-separated integers.

Constraints

$$1 \leq arr[i] \leq 10^9$$

Output Format

Print two space-separated long integers denoting the respective minimum and maximum values that can be calculated by summing exactly four of the five integers. (The output can be greater than a 32 bit integer.)

Sample Input

1 2 3 4 5

Sample Output

10 14

Explanation

Our initial numbers are 1, 2, 3, 4, and 5. We can calculate the following sums using four of the five integers:

- If we sum everything except 1, our sum is $2 + 3 + 4 + 5 = 14$.
- If we sum everything except 2, our sum is $1 + 3 + 4 + 5 = 13$.
- If we sum everything except 3, our sum is $1 + 2 + 4 + 5 = 12$.
- If we sum everything except 4, our sum is $1 + 2 + 3 + 5 = 11$.
- If we sum everything except 5, our sum is $1 + 2 + 3 + 4 = 10$.

Hints: Beware of integer overflow! Use 64-bit Integer.

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Author

bishop15

Difficulty

Easy

Max Score

10

Submitted By

553176

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```

6  import java.util.concurrent.*;
7  import java.util.regex.*;
8
9  public class Solution {
10     // Complete the miniMaxSum function below.
11     static void miniMaxSum(int[] arr) {
12
13         Arrays.sort(arr);
14         Long mini = 0L;
15         Long max = 0L;
16         for (int i = 0; i < arr.length-1; i++) {
17             mini += arr[i];
18         }
19
20         for (int i = 1; i < arr.length; i++) {
21             max += arr[i];
22         }
23
24         System.out.println(mini + " " + max);
25     }
26
27     private static final Scanner scanner = new Scanner(System.in);
28

```

Line: 21 Col: 27

 Upload Code as File ☐ Test against custom input

Run Code

Submit Code



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95%

96.71/100

Congratulations

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Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

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1 1 2 3 4 5

Expected Output

Download

1 10 14