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.

Example

$arr = [1, 3, 5, 7, 9]$

The minimum sum is $1 + 3 + 5 + 7 = 16$ and the maximum sum is $3 + 5 + 7 + 9 = 24$. The function prints

```
16 24
```

Function Description

Complete the miniMaxSum function in the editor below.

miniMaxSum has the following parameter(s):

- arr: an array of 5 integers

Print

Print two space-separated integers on one line: the minimum sum and the maximum sum of 4 of 5 elements.

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

The numbers are 1, 2, 3, 4, and 5. Calculate the following sums using four of the five integers:

1. Sum everything except 1, the sum is $2 + 3 + 4 + 5 = 14$.
2. Sum everything except 2, the sum is $1 + 3 + 4 + 5 = 13$.
3. Sum everything except 3, the sum is $1 + 2 + 4 + 5 = 12$.
4. Sum everything except 4, the sum is $1 + 2 + 3 + 5 = 11$.
5. Sum everything except 5, the sum is $1 + 2 + 3 + 4 = 10$.

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

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Change Theme Language Java 8

```
13  class Result {
14
15      /*
16       * Complete the 'miniMaxSum' function below.
17       *
18       * The function accepts INTEGER_ARRAY arr as paramete
19       */
20
21      public static void miniMaxSum(List<Integer> arr) {
22      // Write your code here
23          Collections.sort(arr);
24
25          System.out.printf("%d %d", arr.get(0) + 0L + arr.
    0L+ arr.get(1) + arr.get(2) + arr.get(3) + arr.get(4));
26      }
27
28  }
29
30  public class Solution {
31      public static void main(String[] args) throws IOExcep
32          BufferedReader bufferedReader = new BufferedReade
    ;
33
34          List<Integer> arr = Stream.of(bufferedReader.read
    .split(" "))
35              .map(Integer::parseInt)
36              .collect(toList());
37
38          Result.miniMaxSum(arr);
```

Line: 43 Col: 1

Upload Code as File

Test against custom input

Run Code Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends?

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) Download

```
1 2 3 4 5
```

Expected Output Download

```
10 14
```