Mini-Max Sum ★

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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.

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

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

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 $1 + 2 + 3 + 4 = 10$.
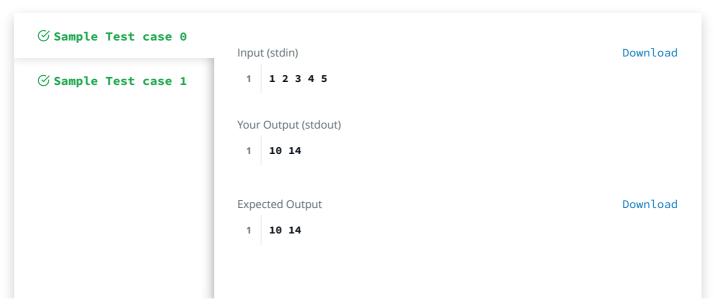
Hints: Beware of integer overflow! Use 64-bit Integer.

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Change Theme   Language   Java 8

```
1    import java.util.*;
2
3    class Solution{
4        public static void main(String args[]){
5            long[] arr = new long[5];
6            Scanner sc = new Scanner(System.in);
7
8            for (int i=0;i<5;i++){
9                arr[i] = sc.nextInt();
10           }
11
12           Arrays.sort(arr);
13
14           long maxi = arr[4] + arr[3] + arr[2] + arr[1];
15           long mini = arr[3] + arr[2] + arr[1] + arr[0];
16
17           System.out.println(mini + " " + maxi);
18       }
19   }
```

Line: 19 Col: 2

⬆ Upload Code as File   ☐ Test against custom input   **Run Code**   **Submit Code**

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

⊘ **Sample Test case 0**

⊘ **Sample Test case 1**

Input (stdin)   Download

```
1    1 2 3 4 5
```

Your Output (stdout)

```
1    10 14
```

Expected Output   Download

```
1    10 14
```