Problem H. Mini-Max Sum

OS Linux

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 $\bf 4$ of $\bf 5$ 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.)

Input	Output
1 2 3 4 5	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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