



# 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.

### 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 with the following parameter(s):

- **arr[5]**: 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. No value should be returned.

**Note** For some languages, like C, C++, and Java, the sums may require that you use a long integer due to their size.

### Input Format

A single line of five space-separated integers.

### Constraints

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

### 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 a 64-bit integer to store the sums.

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Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'miniMaxSum' function below.
11 #
12 # The function accepts INTEGER_ARRAY arr as parameter.
13 #
14
15 def miniMaxSum(arr):
16     # Write your code here
17     arr.sort()
18     print(sum(arr[:4]),sum(arr[-4:]),sep=' ')
19
20 if __name__ == '__main__':
21
22     arr = list(map(int, input().rstrip().split()))
23
24     miniMaxSum(arr)
25
```

EMACS

Line: 25 Col: 1

Upload Code as File



Test against custom input

Run Code

Submit Code

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5%

493.8/850



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Test case 0

Compiler Message

Test case 1

Success

Test case 2

Input (stdin)

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1 1 2 3 4 5

Test case 3

Expected Output

Download

1 10 14

Test case 4

Test case 5

Test case 6