A: Arithmetic

Time Limit: 1 second(s)

It doesn't get much simpler than this. Calculate the sum of the two input numbers and the difference between the two input numbers.

Make sure you look at the input ranges and think about the data type needed to calculate the possible results.

Input

The input consists of two integer values, a and b ($-2\,000\,000\,000 \le a, b, \le 2\,000\,000\,000$), on a single line separated by a single space .

Output

Print, on a single line, firstly the sum of a and b and secondly the difference between a and b.

Sample Input and Output

Sample Input 1	Output for Sample Input
10 2	12 8

Sample Input 2	Output for Sample Input
2 10	12 -8

Sample Input 3	Output for Sample Input
5 5	10 0

Sample Input 4	Output for Sample Input
-5 -5	-10 0

Sample Input 5	Output for Sample Input
2000000000 2000000000	4000000000 0