

# Olympiad Participants

Input file:            `standard input`  
Output file:          `standard output`  
Time limit:          1 second  
Memory limit:        512 megabytes

There are  $n$  students in the class.

Some of them participated in olympiads:

- $a$  students participated in the mathematics olympiad,
- $b$  students — in the computer science olympiad,
- $c$  students — in the Russian language olympiad.

Some students may have participated in several olympiads at once.

Help the teacher estimate how many students might not have participated in any of these olympiads. Find the minimum and maximum possible number of students who did not participate in any olympiad.

## Input

The first line of the input contains one number  $n$  — the number of students in the class ( $1 \leq n \leq 2 \cdot 10^5$ ). In the second, third, and fourth lines, the numbers  $a$ ,  $b$ , and  $c$  are given respectively ( $0 \leq a, b, c \leq n$ ).

## Output

In the first line, output the minimum possible number of students who did not participate in any olympiad. In the second line, output the maximum possible number of such students.

## Examples

standard input	standard output
10 7 5 3	0 3
7 7 7 7	0 0