

Scoring

Your program will be tested against several test cases grouped in subtasks. In order to obtain the score of a subtask, your program needs to correctly solve all of its test cases.

- **Subtask 1** (0 points) Examples.
 
- **Subtask 2** (30 points) $A, B, K \leq 10\,000$.
 
- **Subtask 3** (70 points) No additional limitations.
 

Examples

input	output
4	7
7 11 3	10
18 9 3	22
58 38 14	131
68 94 231	

Explanation

The first two triples of the **sample case** were explained in the statement. For the third triple, you can increment the numbers to 66 and 44, respectively. For the last triple, you can increment the numbers to 131 and 262, respectively. It can be proved that these values are optimal.