You're given three non-negative integers N ( $0 \le N \le 999$ ), A, B, ( $0 \le A \le B \le 2000000000$ ). Count the number of integers in the interval [A; B] which contain N as a subsequence.

For example if N=3, A=3 and B=17, there are two integers which contain N as a subsequence: 3 and 13.

## Input

The input contains triples of numbers A, B and N. The input ends with '-1 -1'. This line should not be processed.

## Output

For each triple, output the answer on a new line.

## Sample Input

- 3 17 3
- 0 20 0
- 0 150 17
- -1 -1 -1

## **Sample Output**

- 2
- 3
- 2