You're given three non-negative integers $N(0 \leq N \leq 999)$, $A, B,(0 \leq A \leq B \leq 2000000000)$. 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 ' $-1-1-1$ '. This line should not be processed.

## Output

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

```
Sample Input
317 3
0 20 0
0 150 17
-1 -1 -1
```


## Sample Output

