

Digit Sum

time limit per test: 1 second (3 seconds for Python)
memory limit per test: 256 megabytes
input: standard input
output: standard output
points: 100 · problem code: digitsum

Given three integers L , R , and M , count how many integers x satisfy $L \leq x \leq R$ and have digit sum divisible by M . The digit sum of a number is the sum of its decimal digits. For example, the digit sum of 2047 is $2 + 0 + 4 + 7 = 13$.

Input

The input consists of a single line containing three integers L , R , and M .

Output

Print the number of valid integers in the range.

Constraints

- $0 \leq L \leq R < 10^{1000}$
- $1 \leq M \leq 200$
- L and R do not contain leading zeroes, unless the number is exactly 0

Example 1

Input

1 20 2

Output

10

Explanation

The valid values are 2, 4, 6, 8, 11, 13, 15, 17, 19, and 20.

Example 2

Input

0 25 3

Output

9

Example 3

Input

2040 2050 5

Output

2

Explanation

Only 2044 and 2049 have digit sum divisible by 5.