

Arithmetic sequence

[English](#)

[Tiếng Việt](#)

Given an arithmetic sequence $a, a + d, a + 2*d, \dots, a + n*d$.

Request

Count the number of digit x appearing in the given sequence.

Input

- A line containing a, d, n, x .

Output

- The result found.

Example

Input:

10 5 2 0

Output:

2

Limitations

- $1 \leq a, n \leq 10^9$.

- $1 \leq d \leq 20,000$.