

## 5. V

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Zvonko is playing with digits again, even though his mother has warned him that he is doing too much math and should go outside to play with his friends.

In his latest game, Zvonko looks for **multiples** of an integer  $X$ , **composed only of certain digits**. A multiple of  $X$  is any number divisible by  $X$ .

In order to ruin Zvonko's fun, his mother decided to get a program that solves the problem. Write a program that calculates how many multiples of  $X$  are between  $A$  and  $B$  (inclusive), such that, when written in decimal, they contain only certain allowed digits.

### Input

The first line of input contains three integers  $X$ ,  $A$  and  $B$  ( $1 \leq X < 10^{11}$ ,  $1 \leq A \leq B < 10^{11}$ ).

The second line contains the allowed digits. The digits will be given with no spaces, sorted in increasing order and without duplicates.

### Output

Output the number of multiples Zvonko can make on a single line.

### Sample test data

**input**

2 1 20  
0123456789

**output**

10

**input**

6 100 9294  
23689

**output**

111

**input**

5 4395 9999999999  
12346789

**output**

0