Problem: Beautiful Days at Movies:

Lily likes to play games with integers and their *reversals*. For some integer , we define  to be the reversal of all digits in . For example, , , and .

Logan wants to go to the movies with Lily on some day  satisfying , but he knows she only goes to the movies on days she considers to be *beautiful*. Lily considers a day to be *beautiful* if the absolute value of the difference between  and  is evenly divisible by .

Given , , and , count and print the number of *beautiful* days when Logan and Lily can go to the movies.

**Input Format**

A single line of three space-separated integers describing the respective values of , , and .

**Constraints**

**Output Format**

Print the number of *beautiful* days in the inclusive range between  and .

**Sample Input**

20 23 6

**Sample Output**

2

**Explanation**

Logan wants to go to the movies on days , , , and . We perform the following calculations to determine which days are *beautiful*:

* Day  is *beautiful* because the following evaluates to a whole number:
* Day  is *not beautiful* because the following doesn't evaluate to a whole number:
* Day  is *beautiful* because the following evaluates to a whole number:
* Day  is *not beautiful* because the following doesn't evaluate to a whole number:

Only two days,  and , in this interval are beautiful. Thus, we print  as our answer

Solution

long reverse(long num)

{

long find=0;

int exit=0;

while(exit!=1)

{

if(num/10==0) {exit=1;}

find=(find\*10)+num%10;

num=num/10;

}

return find;

}

int main()

{

long num, i, j, k, counter=0;

cin>> i>> j>> k;

for(int a=i; a<=j; a++)

{ ( abs( a-reverse(a) )%k==0 ? counter+=1 : counter+=0);}

cout<<counter;

return 0;

}

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