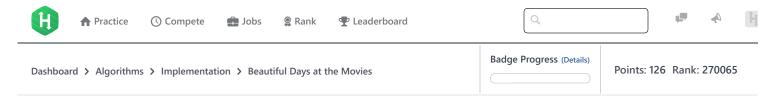
15/11/2017 HackerRank



# Beautiful Days at the Movies **■**



Problem	Submissions	Leaderboard	Discussions	Editorial 🔒
---------	-------------	-------------	-------------	-------------

Lily likes to play games with integers and their *reversals*. For some integer x, we define reversed(x) to be the reversal of all digits in x. For example, reversed(123) = 321, reversed(21) = 12, and reversed(120) = 21.

Logan wants to go to the movies with Lily on some day x satisfying  $i \le x \le j$ , 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 x and x and x are x and x are y and y are y are y and y are y are y and y are y and y are y are y and y are y are y and y are y and y are y are y and y are y are y and y are y and y are y and y are y are y and y are y are y and y are y and y are y are y and y are y are y are y and y are y and y are y and y are y are y and y are y and y are y are y are y are y and y are y are y and y are y are y are y are y and y are y are y and y are y are y are y are y are y and y are y are y are y are y and y are y are y and y are y are y are y are y and y are y are y and y are y are y and y are y are y are y are y and y are y are y and y are y are y are y and y are y are y are y are y and y are y are y are y are y are y and y are y are y are y are y and y are y are y and y are y are y are y are y and y are y are y are y and y are y are y ar

Given i, j, and k, 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  $m{i}$ ,  $m{j}$ , and  $m{k}$ .

### **Constraints**

- $1 \le i \le j \le 2 \times 10^6$
- $1 \le k \le 2 \times 10^9$

## **Output Format**

Print the number of beautiful days in the inclusive range between  $m{i}$  and  $m{j}$ .

### **Sample Input**

20 23 6

# **Sample Output**

2

### **Explanation**

Logan wants to go to the movies on days 20, 21, 22, and 23. We perform the following calculations to determine which days are beautiful:

- ullet Day 20 is *beautiful* because the following evaluates to a whole number:  $rac{|20-02|}{6}=3$
- ullet Day 21 is not beautiful because the following doesn't evaluate to a whole number:  $rac{|21-12|}{6}=1.5$
- Day 22 is *beautiful* because the following evaluates to a whole number:  $\frac{|22-22|}{6}=0$
- Day 23 is not beautiful because the following doesn't evaluate to a whole number:  $\frac{|23-32|}{6}=1.5$

Only two days, 20 and 22, in this interval are beautiful. Thus, we print 2 as our answer.

15/11/2017 HackerRank

Submissions:30288
Max Score:15
Difficulty: Easy
Rate This Challenge:
☆ ☆ ☆ ☆ ☆
More

```
Current Buffer (saved locally, editable) & 🗗
                                                                                          Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ▼
        public static void main(String[] args) {
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
12 }
                                                                                                                   Line: 1 Col: 1
                      Test against custom input
                                                                                                       Run Code
                                                                                                                    Submit Code
Upload Code as File
```

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature