

# Count the numbers!

For given integers **a** and **b** your task is to find how many integers in the range **[a,b]** are divisible by a number **x**, and have the additional property that the sum of their digits lies in the range **[l,r]** for given **l,r**.

## Input

In the first line you're given **a** and **b** ( $1 \leq a \leq b < 10^{100}$ ).

In the second line you're given three positive integers **x** ( $1 \leq x \leq 10$ ), **l**, **r** ( $1 \leq l \leq r \leq 1,000$ ).

## Output

In the first and only line output the result modulo **1,000,000,007**.

## Example

**Input:**

```
1 100  
5 10 50
```

**Output:**

```
5
```

## Scoring

By solving this problem you score 10 points.