The Polar Express

Mimi has just won two raffle tickets for the Polar Express! Unfortunately, there is just one obstacle in the way — the skill testing question!

> Let us define $\mathrm{S}(x)$ to be the sum of digits of x. Given two positive integers, L and R, compute the **number of distinct values** of $\mathrm{S}(x)$, for $x = L, L+1, \ldots R-1, R$.

Mimi has agreed to give you the other ticket if you help her solve this problem. Can you do it?

Constraints

Subtask 1 [10%]

$1 \leq L \leq R \leq 10^5$

Subtask 2 [90%]

$1 \leq L \leq R \leq 10^{18}$

Input Specification

The first and only line of input will contain two space separated integers, L and R.

Output Specification

A single integer, the number of distinct values of $\mathrm{S}(x)$.

Sample Input

```
19 28
```

Sample Output

```
9
```