

## Problem A. A

**Time limit** 3000 ms

**Mem limit** 524288 kB

**OS** Windows

For any non-negative integer  $x$  we can consider its decimal representation as a string of digits from 0 to 9. Denote this string as  $S(x)$ . On the opposite, for any string  $s$  of decimal digits we can get an integer it represents by neglecting all leading zeroes, except maybe one to represent integer 0. Denote this integer  $D(s)$ .

We say that integer  $y$  is an *integer-substring* of integer  $x$  if there exists a string  $s$  that is a substring (consecutive subsequence) of  $S(x)$  and  $D(s) = y$ .

Recall that integer  $x$  is called prime if it is positive and has exactly two divisors. First five primes are 2, 3, 5, 7, 11.

We call integer  $x$  *deep prime* if it is prime and any  $y$  that is integer-substring of  $x$  is prime.

You are given two integers  $n$  and  $m$ , calculate the number of deep prime integers between  $n$  and  $m$ , inclusive.

### Input

The only line of the input contains two integers  $n$  and  $m$  ( $1 \leq n \leq m \leq 10^{18}$ ).

### Output

Print one integer — the number of deep prime integers  $x$  that satisfy  $n \leq x \leq m$ .

### Examples

Input	Output
1 11	4