

## Problem L. Tobby and Prime Sum

Input:	Standar	d				
Output:	Standard					
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Tobby has learned to calculate the sum of the digits of a given number X, but this is very easy for him. Lately he has been studying about prime numbers and he has found a more challenging question:

How many integer numbers in the range from L to R (inclusive) exist such that the sum of their digits is a prime number?.

Tobby is an smart puppy but he can only count to 100, can you help him to solve this problem?

## Input

The input consists of several test cases and must be read until EOF. The first line of each test case contains two integers L and R ( $1 \le L \le R \le 10^{500}$ ).

## Output

For each test case the output consists of one number X indicating how many numbers in the range L, R meet the property previously mentioned. Because this amount can be very large you also should print the answer modulo  $10^9 + 7$ .

## Example

Input	Output
1 10	4
20 46	11