## Problem L. Tobby and Prime Sum

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Input: Standard
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 $R\left(1 \leq L \leq R \leq 10^{500}\right)$.

## 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 |
| :--- | :--- |
| 110 | 4 |
| 2046 | 11 |

