Primyness Of Strings (100 Marks)

Ritik has been closely associated with the String Organization.It keeps producing strings at a very fast rate.But they are facing a problem regarding P**rimyness** of strings so they have appointed him as the Coordinator.

**Primyness** of the String S is given as the number of subsequences of length <=6 of the String whose concatenation of digits forms a prime number.Since you are a close friend of Ritik. Help him in solving this mammoth task.

**Input Format**

First line of input contains a String S consisting of digits (1-9).

**Constraints**

1<= |S| <=19

**Output Format**

You must print an Integer denoting the answer to the problem.

**Sample TestCase 1**

Input

123

Output

4

Explanation

The possible subsequences of 123 are 1,2,3,12,13,23,123.

Out of these 2,3,13,23 are prime numbers.

Hence, the answer is 4.