
Problem

You are given a number n .

A supernatural number is a number whose product of digits is equal to n , and in this number there is no digit 1.

Count the number of supernatural numbers for a given n .

Input

Contains a single integer n , $1 \leq n \leq 100$.

Output

Print the number of supernatural numbers.

Sample Input	Sample Output
4	2

Time Limit: 1

Memory Limit: 256

Source Limit: