# **Best Divisor**



Kristen loves playing with and comparing numbers. She thinks that if she takes two different positive numbers, the one whose digits sum to a larger number is *better* than the other. If the sum of digits is equal for both numbers, then she thinks the smaller number is *better*. For example, Kristen thinks that 13 is better than 11.

Given an integer, n, can you find the divisor of n that Kristin will consider to be the best?

#### **Input Format**

A single integer denoting n.

#### **Constraints**

•  $0 < n \le 10^5$ 

## **Output Format**

Print an integer denoting the best divisor of n.

### **Sample Input 0**

12

## **Sample Output 0**

6

#### **Explanation 0**

6 has sum of digits equal to 6 and this is greater than sums of digits of all other divisors (1, 2, 3, 4, 12)