# Circular

#### **Problem**

A circular prime is a prime number that remains prime as each leftmost digit (most significant digit), in turn, is moved to the right hand side. For instance, the number 19937 is a circular prime, since all numbers in the sequence 19937, 99371, 93719, 37199 and 71993 are prime numbers. Your objective is to write a program that, given a range, computes the number of circular primes in that range.

#### Input

The input consists of a sequence of pairs of integers i and j, with one pair of integers per input line. All integers will be less than 1,000,000 and greater or equal to 100. You can assume that in any pair i is lesser or equal than j. You should process all pairs of integers, and for each such pair, count the number of circular primes between i and j, including i and j. Input is terminated by a line just with the number -1.

### Output

For each pair of input integers, defining a range, the output should be: "No Circular Primes." (if there are no circular primes in the range), "I Circular Prime." (if only one circular prime exists in the range), or "n Circular Primes." (if there are n circular primes in the range, and n is greater than one).

## **Sample Input**

1000 1100 100 120 100 1000 -1

## **Sample Output**

No Circular Primes.

1 Circular Prime.

12 Circular Primes.