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), ' 1 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

10001100
100120
1001000
-1

## Sample Output

No Circular Primes.
1 Circular Prime.
12 Circular Primes.

