

BUBT INTRA-UNIVERSITY PROGRAMMING CONTEST SPRING 2017(DIVISION 2)

Finished

THE CONTEST HAS ENDED.

E. Is It Prime???

Score: 1
CPU: 2s
Memory: 512MB

We all know what prime number is and how we can decide a prime number. In this problem we had to do something like deciding prime, but in a bit different way. Given a digit, you had to sum the digit until it becomes a single digit and then we will decide if the number is prime or not. Such as the number is 345, now if we do the procedures 345 -> 12 -> 3 which is prime.

INPUT

Input consists of a number N which may contain 1000 digit. There can be leading spaces and zeros in the input and don't forget about the trailing spaces. A number as input 0 will terminate the input. This input should not be processed.

OUTPUT

Output a single line printing the message if the given number is prime or not. "Prime" if prime and "Not Prime" if not prime.

Sample

Input	Output
8	Not Prime
123456789	Not Prime
0	

Problem setter: *Abu Obaida Opu* , Software Engineer
Structure Data Systems Limited (SDSL).

