**​Emirp Numbers**

An emirp number is a special type of prime number which gives yet another prime number after reversing its digits. For example, let's consider 17 which is a prime number. After reversing its digits we get 71, which is also a prime number. Therefore 17 is an emirp number.

**Problem Description**

Write a code that takes an integer *N* as input, determines whether it is an emirp number or not and displays YES or NO accordingly.

**Input Format**

The integers *N*

**Output Format**

YES or NO

**Constraints**

0 <= *N* <= 105

**Sample Input**

31

**Sample Output**

YES

**Explanation**

31 is a prime and its reverse 13 is a prime too, making it an emirp number.