**​Prime Neighbours**

A number is given and you have to find out whether it is a prime neighbour or not. A number can be called a prime neighbour if both the numbers preceding and succeeding it are prime numbers. For example, 4 happens to be a prime neighbour because 3 and 5 both are prime numbers.

**Problem Description**

Write a code that takes an integer *N* as input, figures out whether it is a prime neighbour or not and displays YES or NO accordingly.

**Input Format**

The integers *N*

**Output Format**

YES or NO

**Constraints**

0 <= *N* <= 109

**Sample Input**

6

**Sample Output**

YES

**Explanation**

5 and 7 both are prime numbers, so 6 can be called a prime neighbour.