# A. Panoramix's Prediction

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

*A prime number is a number which has exactly two distinct divisors: one and itself. For example, numbers $2$, $7$, $3$ are prime, and $1$, $6$, $4$ are not.*

*The next prime number after $x$ is the **smallest** prime number greater than $x$. For example, the next prime number after $2$ is $3$, and the next prime number after $3$ is $5$. Note that there is exactly one next prime number after each number. So $5$ **is not** the next prime number for $2$.*

One cold April morning Panoramix predicted that soon Kakofonix will break free from his straitjacket, and this will be a black day for the residents of the Gallic countryside.

Panoramix's prophecy tells that if some day Asterix and Obelix beat exactly $x$ Roman soldiers, where $x$ is a prime number, and next day they beat exactly $y$ Roman soldiers, where $y$ is **the next prime number** after $x$, then it's time to wait for Armageddon, for nothing can shut Kakofonix up while he sings his infernal song.

Yesterday the Gauls beat $n$ Roman soldiers and it turned out that the number $n$ was prime! Today their victims were a troop of $m$ Romans ( $m > n$). Determine whether the Gauls should wait for the black day after today's victory of Asterix and Obelix?

## Input

The first and only input line contains two positive integers — $n$ and $m$ ($2 \le n < m \le 50$). It is guaranteed that $n$ is prime.

Pretests contain all the cases with restrictions $2 \le n < m \le 4$.

## Output

Print `YES`, if $m$ is the next prime number after $n$, or `NO` otherwise.

### Examples

| input | Copy |
|---|---|
| 3 5 | |

| output | Copy |
|---|---|
| YES | |

| input | Copy |
|---|---|
| 7 11 | |

| output | Copy |
|---|---|
| YES | |

| input | Copy |
|---|---|
| 7 9 | |

**output** Copy

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NO
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