

## Is it Prime?

Given an integer  $n$ , you have to answer the question: *is  $n$  prime?*

### Input:

- Input consists of a single integer  $n$  ( $1 \leq n \leq 10^9$ ).

### Output:

- Output YES if  $n$  is prime and NO otherwise.

### Samples:

Input	Output
1	NO
2	YES
3	YES
4	NO
1293821	YES