3/30/24, 7:28 PM Check Prime - Naukri Code 360 Send feedback **Problem statement** A prime number is a positive integer that is divisible by exactly 2 integers, 1 and the number itself. You are given a number 'n'. Find out whether 'n' is prime or not. Example: Input: 'n' = 5Output: YES Explanation: 5 is only divisible by 1 and 5. 2, 3 and 4 do not divide 5. Detailed explanation (Input/output format, Notes, Images) Sample Input 1: 5 **Sample Output 1:** YES Explanation of sample input 1: 5 is only divisible by 1 and 5. 2, 3 and 4 do not divide 5.

### Sample Input 2:

6

### Sample Output 2:

NO

### Explanation of sample input 2:

6 is divisible by 1, 2, 3, and 6. Therefore it is not a prime number. Numbers having more than two factors are known as composite numbers.

# Sample Input 3:

1

# **Sample Output 3:**

NO

## Explanation of sample input 3:

- 1 is divisible only by 1, having only one factor. Therefore it is not a prime number.
- 1 is neither a prime nor a composite number.

# **Expected time complexity:**

The expected time complexity is O(sqrt('n')).

#### Constraints:

Time limit: 1 second