

<https://course.acciojob.com/idle?question=389f45af-f5b7-40b2-9f93-28870704e2ee>

- EASY
- Max Score: 30 Points

Check Prime

Write a program that inputs a positive integer N . It should then output a message indicating whether the number is a prime number or not.

Input Format

A single line containing the integer N

Output Format

Print a string, either " N is a prime number" or " N is not a prime number" (without quotes), depending on whether N is prime or not.

Example 1

Input

5

Output

5 is a prime number

Explanation

5 is only divisible by itself and 1, hence it's a prime number.

Example 2

Input

10

Output

10 is not a prime number

Explanation

1,2,5 & 10 are factors of 10, hence it is not a prime number.

Constraints

$1 \leq |n| \leq 10^9$

Topic Tags

- Math

My code

// in java

```
import java.util.*;  
import java.lang.*;  
import java.io.*;
```

```
public class Main
```

```
{
```

```
    public static void main (String[] args) throws java.lang.Exception  
    {
```

```
        //your code here
```

```
        Scanner s=new Scanner(System.in);  
        int n=s.nextInt();
```

```
for(int i=2;i*i<n;i++)
{
    if(n%i==0)
    {
        System.out.print(n+" is not a prime number");
        return;
    }
}
System.out.print(n+" is a prime number");
}
```