- **EASY**
- **Max Score: 30 Points**

Power of three

Given an integer `n`, print `yes` if it is a power of three. Otherwise, print `no`.

An integer `n` is a power of three, if there exists an integer `x` such that $n == 3x$.

Input Format

The first line contains a single integer `n`

Output Format

Print `yes` if it's power of three else print `no`

Example 1

Input

9

Output

yes

Explanation

9 = 3^2

Example 2

Input

```
0
```

Output

```
no
```

Explanation

0 is not a power of 3

Constraints

```
-2^31 <= n <= 2^31 - 1
```

- **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();
```

```java
int p=3,c=0;
if(n==1)c=1;
while(p<=n)
  {
    if (p==n) c=1;
    p=p*3;
  }

if(c==1)
  System.out.print("yes");
else System.out.print("no");
  }
}
```