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

Strong Number

Given a number `n`, check whether the given number is a `Strong Number` or not.

Note: Strong Numbers are the numbers whose sum of factorial of digits is equal to the original number.

Input Format

First line of input contains a single number `n`.

Output Format

Print 1 if the given number is a strong number, else print 0.

Example 1

Input

```
145
```

Output

```
1
```

Explanation

1! + 4! + 5! = 145.

Example 2

Input

11

Output

0

Explanation

1!+1!=2, which is not equal to 11.

Constraints

1 <= n <= 1000

- **Math**
- **Basics**

My code

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

public class Main
{
    static int fac(int n)
    {
        if(n==1 || n==0)
```

```java
            return 1;
        return (n*fac(n-1));
    }
    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int sum=0,m=n;
        while(m>0)
            {
                int r=m%10;
                m=m/10;
                sum+=fac(r);
            }
        if(n==sum)
            System.out.print("1");
        else    System.out.print("0");
    }
}
```