

Day 15 coding Statement : Write a program to identify if the number is Strong number or not

Description

Get a number as input from user and then check whether that number is a strong number or not. A number is said to be strong number if the sum of the factorial of each digit in the number is same as that of the number.

E.g. let the number be 145

Here $1! + 4! + 5!$ is $1 + 24 + 120$ which is equal to 145 itself.

Input

121

Output

Not a strong number

Input

2

Output

Strong number

Code :

```
import java.util.Scanner;
public class Day_15
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);

        System.out.print("Enter a number : ");
        int num=sc.nextInt();
        int temp=num;

        int tempStrong=0;
        while(num>0)
```

```

        {
            int rem=num%10;
            tempStrong= tempStrong+getFactorialOfNumber(rem);
            num =num/10;
        }

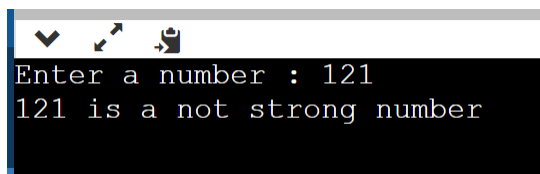
        if(temp==tempStrong)
        {
            System.out.println(temp+" is a strong number");
        }
        else{
            System.out.println(temp+" is a not strong number");
        }
    }

}

//finding factorial for a number using recursion
public static int getFactorialOfNumber(int num)
{
    if(num==0)
    {
        return 1;
    }
    return num * getFactorialOfNumber(num-1);
}
}

```

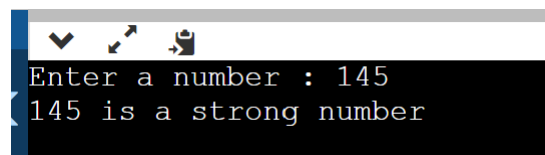
Output :



```

Enter a number : 121
121 is a not strong number

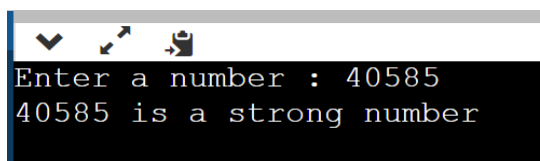
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```

Enter a number : 145
145 is a strong number

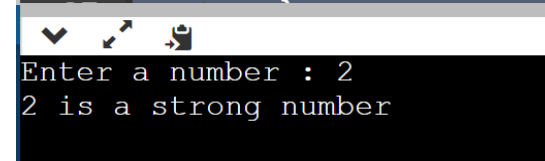
```



```

Enter a number : 40585
40585 is a strong number

```



```

Enter a number : 2
2 is a strong number

```