2. Write a program to check the given no is Armstrong or not using recursive function.

Program:

```python
def order(n):
    count = 0
    while n != 0:
        count += 1
        n //= 10
    return count


def is_armstrong(n, order):
    if n == 0:
        return 0
    else:
        return ((n % 10) ** order) + is_armstrong(n // 10, order)


num = int(input("Enter a number: "))
order_num = order(num)


if num == is_armstrong(num, order_num):
    print(num, "is an Armstrong number.")
else:
    print(num, "is not an Armstrong number.")
```

Input: `Enter a number: 153`

Output: `153 is an Armstrong number.`

Time Complexity:O(log(n))