

2.write a program to check the give number is Armstrong or not using recursive function

Program:-

```
num = int(input("Enter a number: "))
```

```
order = len(str(num))
```

```
sum = 0
```

```
temp = num
```

```
while temp > 0:
```

```
    digit = temp % 10
```

```
    sum += digit ** order
```

```
    temp //= 10
```

```
if num == sum:
```

```
    print(num, "is an Armstrong number")
```

```
else:
```

```
    print(num, "is not an Armstrong number")
```

output:-

```
Enter a number: 153  
153 is an Armstrong number  
  
=== Code Execution Successful ===
```

Time complexity:- $O(n^2)$