CSE 2281

LAB 1 — Section 6.

Shihab Sharar
19241007

Priliminary testing

1. $O(n^2)$
2. $O(n)$

Recursion

1. $O(\log_2 n)$
2. $O(n)$
3. $O(\log_3 n)$
4. For $T(n/2)$ recursion
   - worst case is $O(\log_2 n)$
   - but worst case can in theory be even larger, ∴ we can consider $O(n^2)$ as worst case.

A second answer is, for $n = 1$, $O(\log_2 n)$ and $O(n^2)$ are both 1.

```python
n=int(input())
a=n
sum=0
while n>0:
    r=n%10
    sum=sum+r*r*r
    n=n/10
if a==sum:
    print("Armstrong Number")
else:
    print("It is not an Armstrong Number")

```