Output:

```
n = 256: 9 digits
n = 750: 10 digits
```

Recurrence Relation and Stop Condition:

- T(n) = 1 + T($\frac{n}{2}$) and T(1) = 1

Big Oh Complexity:

- Master Method

- Parameters:
  - a = 1
  - b = 2
  - f(n) = n^0
- Compare f(n) to n^d:
  - $n^{log_b a}$ = $n^{log_2 1}$ = n^0

  - **n^0 = n^0**

- Compare f(n) to n^d:
  - **T(n) = O($n^{log_b a}$** logn**) = O(1 *** logn**) = O(logn)**