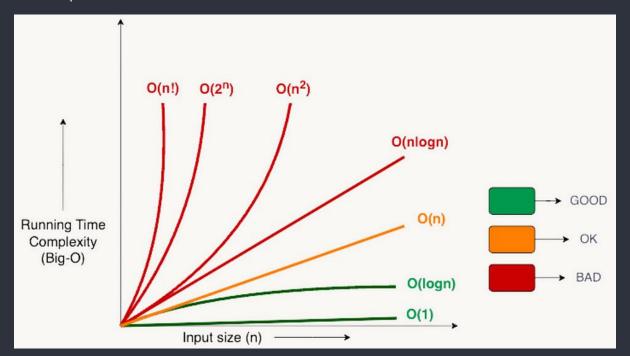


Big O

Big O notation is a way to describe the performance or complexity of an algorithm in terms of how it scales with the size of the input. It provides an upper bound on the growth rate of an algorithm's running time in the worst-case scenario. In other words, it describes the upper limit of the function that represents the running time of an algorithm in terms of the size of its input.





O(1) , O(n) , O(n^2)

O(1) - Constant Time

The algorithm's running time does not depend on the size of the input.

Example: Accessing an element in an array by index.

O(n) - Linear Time

The running time is directly proportional to the size of the input.

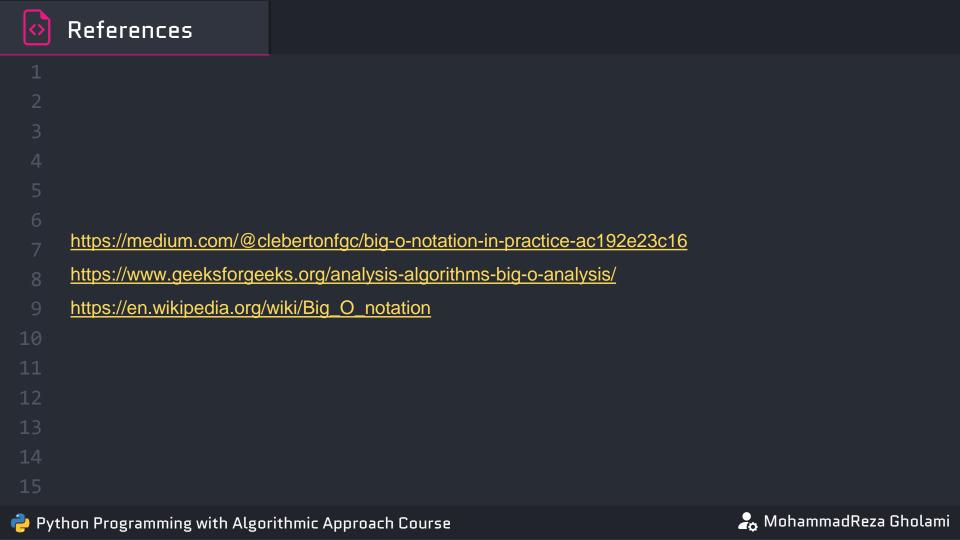
Example: Finding the maximum element in an unsorted list.

O(n^2) - Quadratic Time

The running time is proportional to the square of the size of the input.

Example: Bubble sort, finding all pairs of elements in an array that sum to a specific target value.









THANKS!

Do you have any questions?

- +98 9939996370

mmd.gh313@gmail.com

https://github.com/mmd00Z

@mmd1024

