# How to measure the codes using Big O

#### 5 Rules

N <sub>o</sub>	Description	Complexity
Rule 1	Any assignment statements and if statements that are executed once regardless of the size of the problem	O(1)
Rule 2	A simple "for" loop from 0 to n ( with no internal loops)	O(n)
Rule 3	A nested loop of the same type takes quadratic time complexity	O(n <sup>2</sup> )
Rule 4	A loop, in which the controlling parameter is divided by two at each step	O(log n)
Rule 5	When dealing with multiple statements, just add them up	

man individe initializations and some of these

ithm.







## Python range() Function

## Definition and Usage

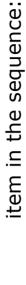
The range() function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and ends at a specified number.

#### Syntax

range (start, stop, step)

### Parameter Values

Parameter	Description
start	Optional. An integer number specifying at which position to start. Default is 0
stop	Required. An integer number specifying at which position to end.
step	Optional. An integer number specifying the incrementation. Default is 1







1988