

Big O Notation (worst Time Complexity),

Time Complexity

BIGO - worst case time complexity is called.

Big O Noceton,

Time Complexity 1: 100 (1) It is commonly expressed by the Big. O natation, Time Complexity of an algorithm signefier the total time required by the

program running till completion,

Mologn o (logn) 5170,

Constant Complenity O (1)

Dunding time we SMIWIFS SM

Can't Change 30 31 2 3 4 5 6 7 8 6 7

July 2017					August 2017							Septembe					
S						5	8	M	7	W	1	F	8	S	M	1	W
	31					1				2							
2	3	4	5	ò	7	8	6	1	8	9	10	H	12	3	4	5	6
9	10	11	12	13	14	15	13	14	15.	16	17	18	19	10	11	12	13
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20
23	24	28	26	27	28	29	27	28	29	30	31			24	26	26	2



longerthenic Complexity O (logn)

& Cut in half

logarthmic time Complexity are Commonly Hound in operations on Binary tree or when using binary search

the input data.

log-linear puring Time - O (nlogn)

A quarthinear (01) log linear puning time Complexity when each operations in input data have a logarithm time complexity.

Commenty used in sorting algorithms. (monge son, +imsort, heapsort).

Exponential Runing Time O(2")

It is used in brute-force algorithm



FOAMFIT"

GREENFIT



this it becomes incredibly resource. expendive to brute-fourse crack a long password versus a 5 hort one de f fibonacti(n): return n The Enput values size Increase by on runtino doubles. Exponential Paning Vine -0(35) Quadratic Runing Time - O(NK) quadratic Reining time Complexity Whom it needs to perform a lenear time operation for each value in the input data. guartic Home Complexity of O (nk) . k- for loop count Ef the input size doubles quadraples. July 2017 August 2017 2 3 4 5 6 7 8 6 7 8 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23

SMARTFIT

EASYFIT

ULTRAFIT"

23 24 25 26 27 28 29 27 28 29 30 31

AQUAFIT



17 Thursday (229-136)Wk-33	A0000.					
Factorial : Ru	ning Time Lox	uplexity Och 12				
When it grows based on the	puning the	torial way				
Heap's alg factorial puning	evithm be be complexity	t example of				
	<u> </u>					