Intro Tuesday, 18 June 2024 12:37 AM	
- Time & Space complexity is a	sed to masure the efficiency of a programme
-> Time: Amount of time taken by a	n algorithm by a function of its input size.
-> Space: Amount of space taken by	an algorithm by a function of its input size.
How to represent	
-> By using asymptotic not	ations
1. Big-O Notation O(n): Worst case complexity	
Omega notation ((n): Dest case company	
3. Theta notation $\Theta(n)$ : Average case complexity.	
Types of O(notation)	
-> Constant O(1): Remai	ns constant irrrespective of input size.
(inear O(n): Simple	for loop tell n
- Quadratic O(n2):	2 rested for loops
-> loganithmic O(n logn)	input size reduces by half every iteration
	Anna Lie Bra - A
JS Objects Big-O	Arrays - Big -0
Insert - O(1)	Insert/remove at end _ O(1)
Remove - 0 (1)	Insent/remove at beginning - O(n): indexes have to
Access - O(i)	Access - O(1) Search - O(n)
Search for a value - O(n)	
Object. relus J -> O(n)	push/pop - O(1) shift/unshift/concat/slice/splice-O(n)
Object. rames Object. entmes	for each map fiter reduce - (1)
Officer.	sort _ O (n log n)
la bea un execute cede in co	donc platforms.

it takes roughly 1s to run 108 operations
1s - 108 ops

2 = 2 × 108 ops 3 = 3 × 108 ops