

- Time Complexity ? Time tuken

function that give he the relationship about how the time will grow as the imput grows

As the input groups time group is known as

example:

Obl Compares New Compare (very fast)

[million as elevent | million elevent

orray

Linear Search jus

forget a that class

Not osurt

[incomple:

Orray

Invition elevent

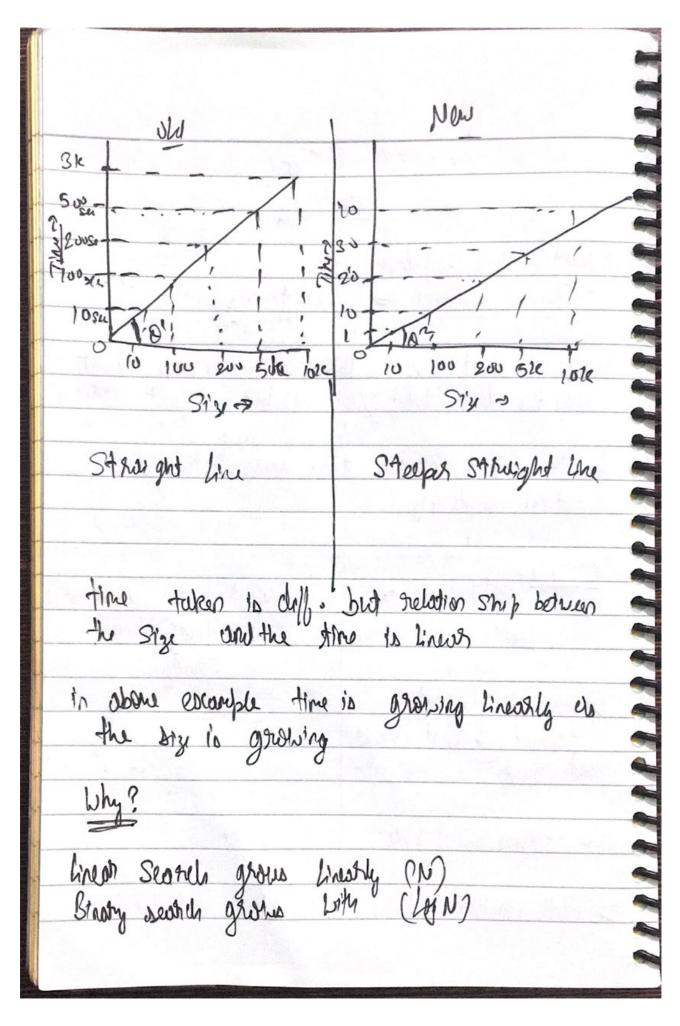
orray

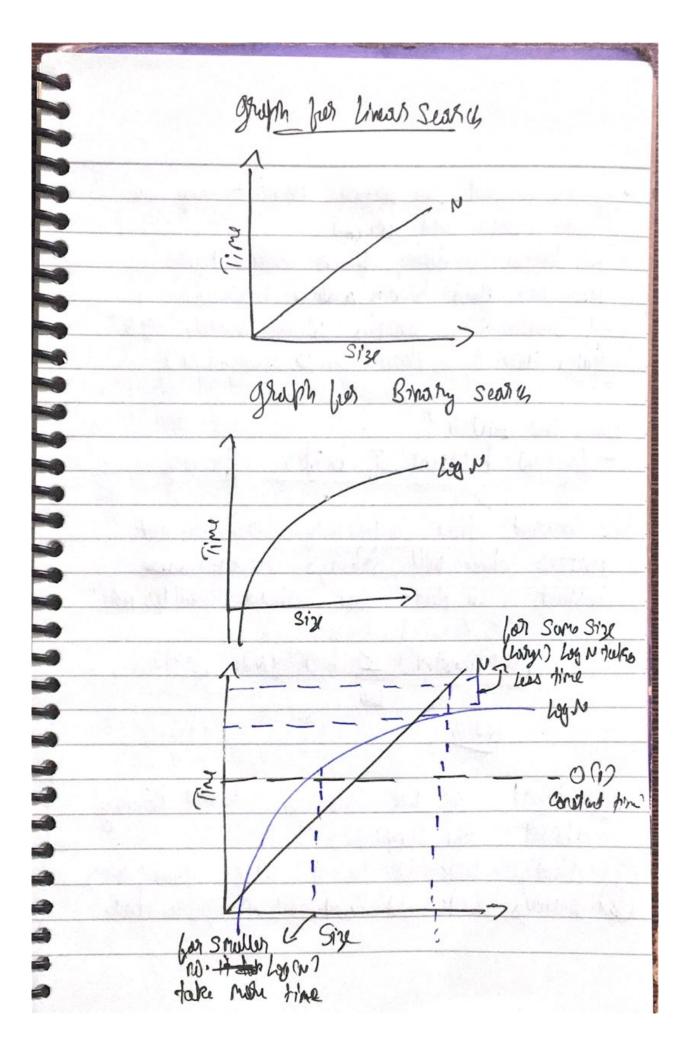
Linear Search jus

Inot osurt

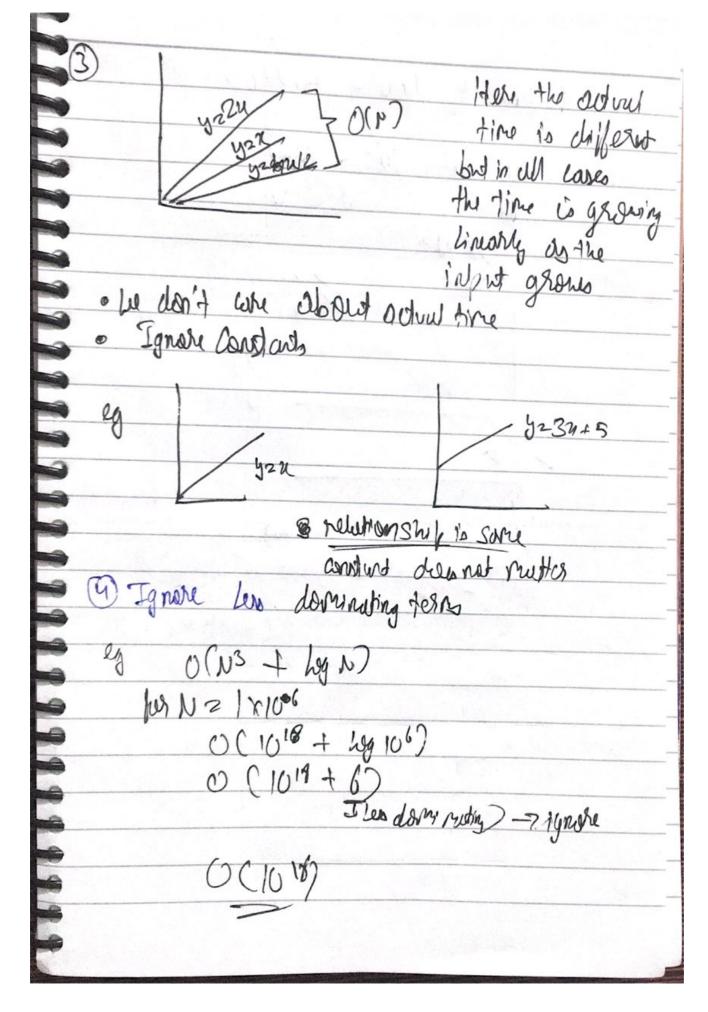
[see

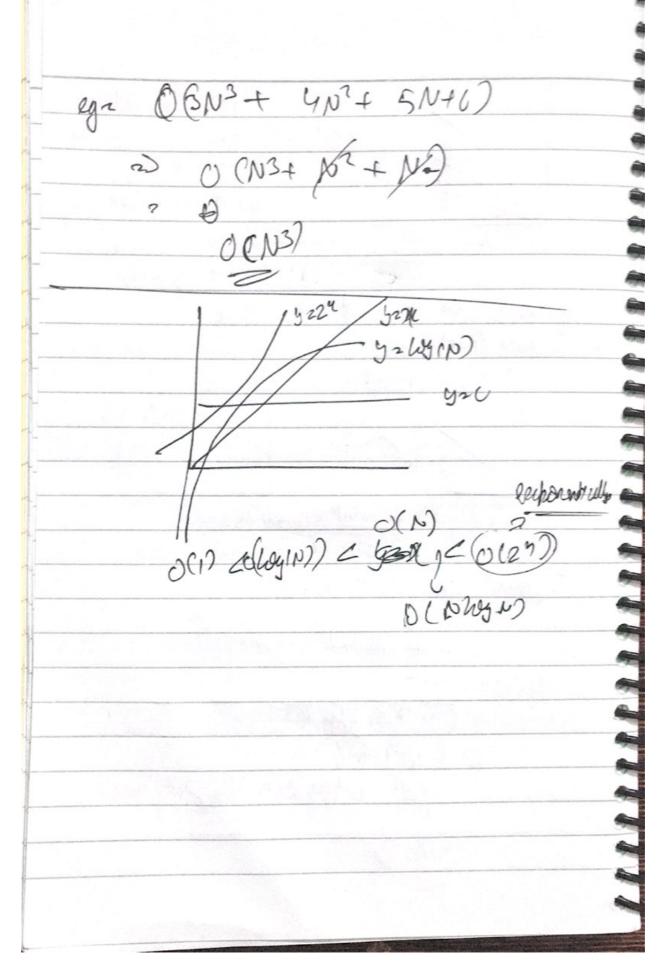
=> Both machine how Same time Complexity



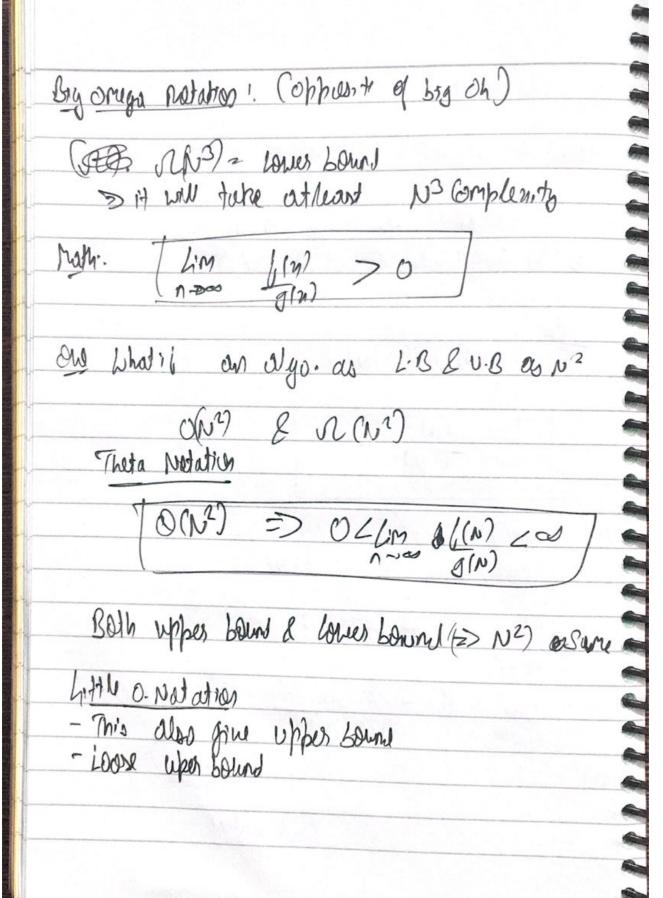


· V Size is lived for larger no. it may go like about and beyond	
· to longer size oversys linear Search tukes	
mode time than binary search, Whereas	
Smaller stree attending to noting scorics (by N)	
Takes man time then linear second (N)	
A Secretary of the second seco	
Lhich one better?	
- Loy (N) because of better efficiency	
for Constant time Completing 1573 does not	•
nother time will shays remain	
Constant, "we don't come about Smaller no."	7
(a) (5) (appl) d = (bythrea) (1)	
bether	
Que libert de la companya de la comp	•
One What do we Consider when thinking	
apola ta complexity.	
a shuring look for worst case complement	,
(2) Always look at Complements / infinite data	•
	*





4	70
B14 (Ok Notation
· WOW	definition =:
•	O(N3) > Upper bound
) = = = = = = = = = = = = = = = = = = =	The Complexity connect exceed N3
Mulha	(m) 20(g(N))
	nim (N) Mil nim (N) mil
eg. 01	g(N) ((N) 3N+5)
4	6M 6N3 +3N+5
	1m 6 + 2 + 5 = 6+0+0
a a	Broke value



222222222222222222222222222222222222 Stronger St. wherest G Loffle Oh Big oh 2019 120(g) (5) Strictly Shows than Mathematically -(a) 1 lim (N) 6(N) ga N3 Ry /2 N2 1-360 N2 N-360 N3 Little orays w -gives lower bound, but gives loves Lovesbound 179 for By on hm HN) 200