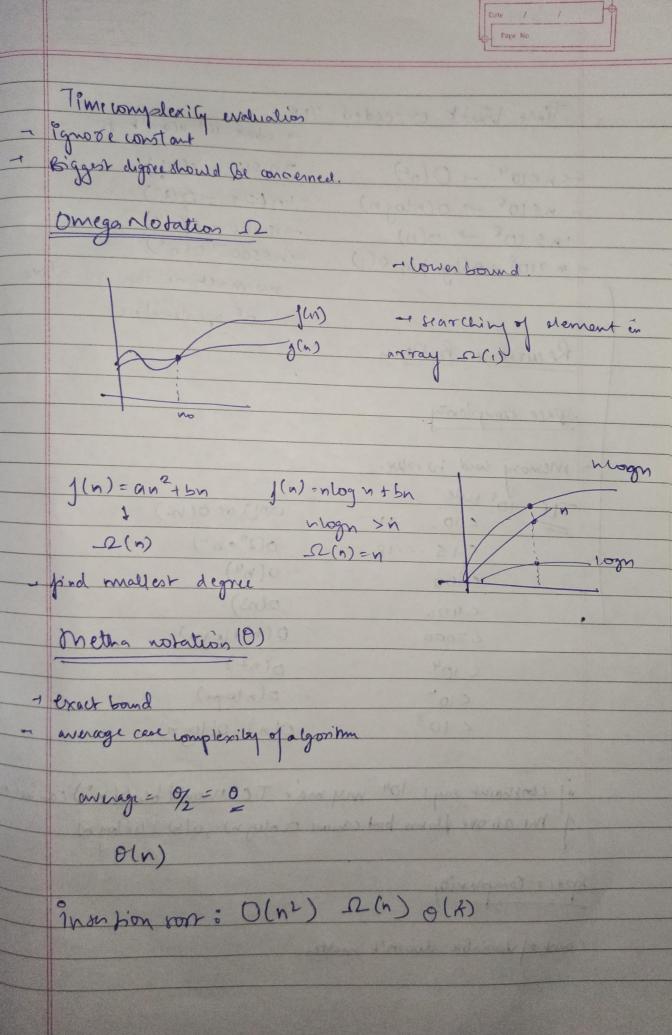
	Time & Space Congress				
	- 10am				
	- to compare 2 algorithm [not standari zed form]				
	- to compare 2 algorithm I doesn't depend on time run [not standan't zedform]				
	a lie valations are used.				
	so, asymptotic notations are used.				
	-Big O Twont time complexity) - omega - meta				
	- omega				
	- meta				
	big 0				
	n-input size j(n)-i frunction				
1	Jan Jan Cuon				
	g(n)-anomer purction [after no gen) > f(n)]				
	: we say g(n) is giving Big Onotation				
	g(n)				
1	Jen) Linear segret : for loop till for my hu den red object				
	yen) ng hu den red object				
	70				
	O(n)				
	, worst case scenario.				
	upper bound of on a yo.				
	1(n)= an2+bn4+c p(n) + on +on p(n)=100				
	J				
	0(14) 0(1)				

reli-



	Thme limit exceeded	TLE above 108 ucan't	PO.	
	encio4 - 0(n2) - unsiz - dn1)			
000000011	$n \leq 10^6 \rightarrow O(n \log n)$			
	-n=108 -> 0(n)	-1 NE100 -1 O(N4)		
	m 7108 - 666gm) or 0(1)	- 121		
	cagn) or	nomachine can	go above	
4	1990 Ja Julian 1990	108 operations / MC		
	Recurrence Brobleny	CATA COMPANY		
		*		
	space complexity			
1	Memory and howe.			
		Olar (a))		
	TLE 108 zule = 0011	0(m) as 0(NE)	, 6	
	< 15 18	0(2" + n")		
	(100	0(44)	AL ME	
	2406	0(n3)	Ma had a	
	4 2000			
	< 104	O(n2*legn)	Many	
		0(n2)		
	< 108	O(nlogn)	-1 1003	
		o(n), o(logn)	NAME OF THE PERSON OF THE PERS	
	id (post .)			
	of her all says 104	my max T.C. should be	O(nº) canjus	
	of constraint says 104 my max T.C. should be of n') can't me above them but camuse of mlogn, olw, ollogn			
	Spara to		J	
	Space Complexity			
		-1 (-1)() -		
	count of variable doesn't	matte		
	#			