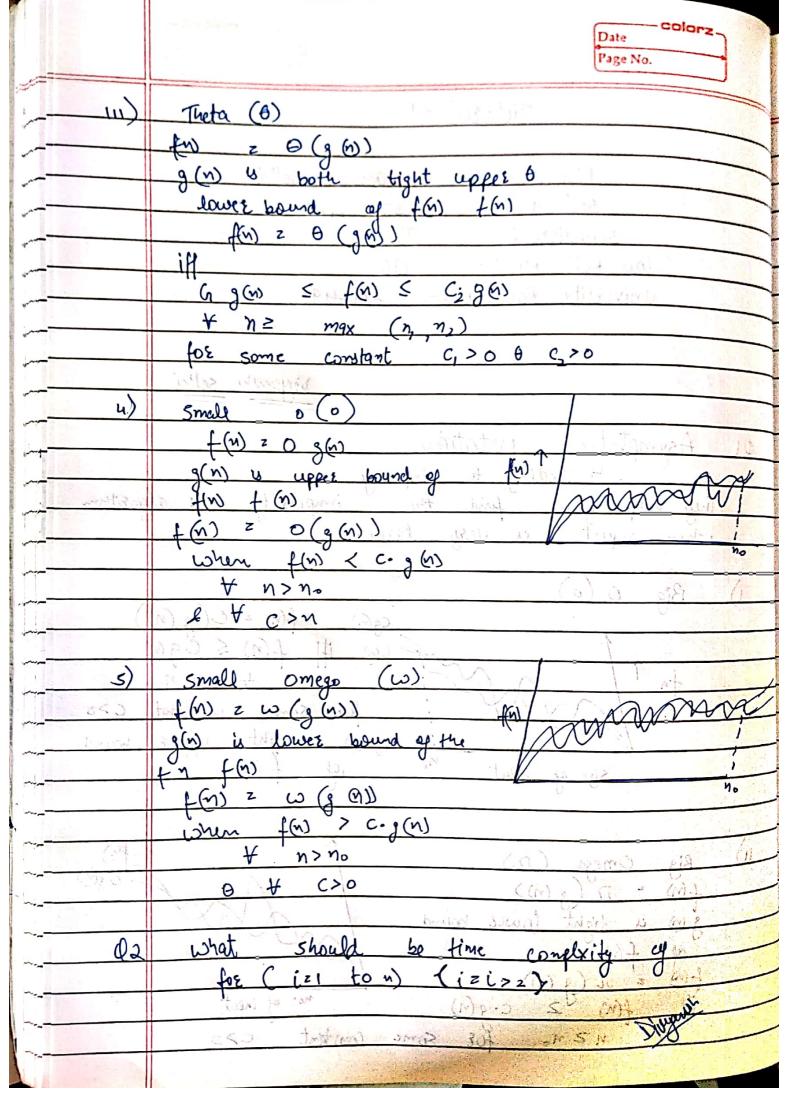
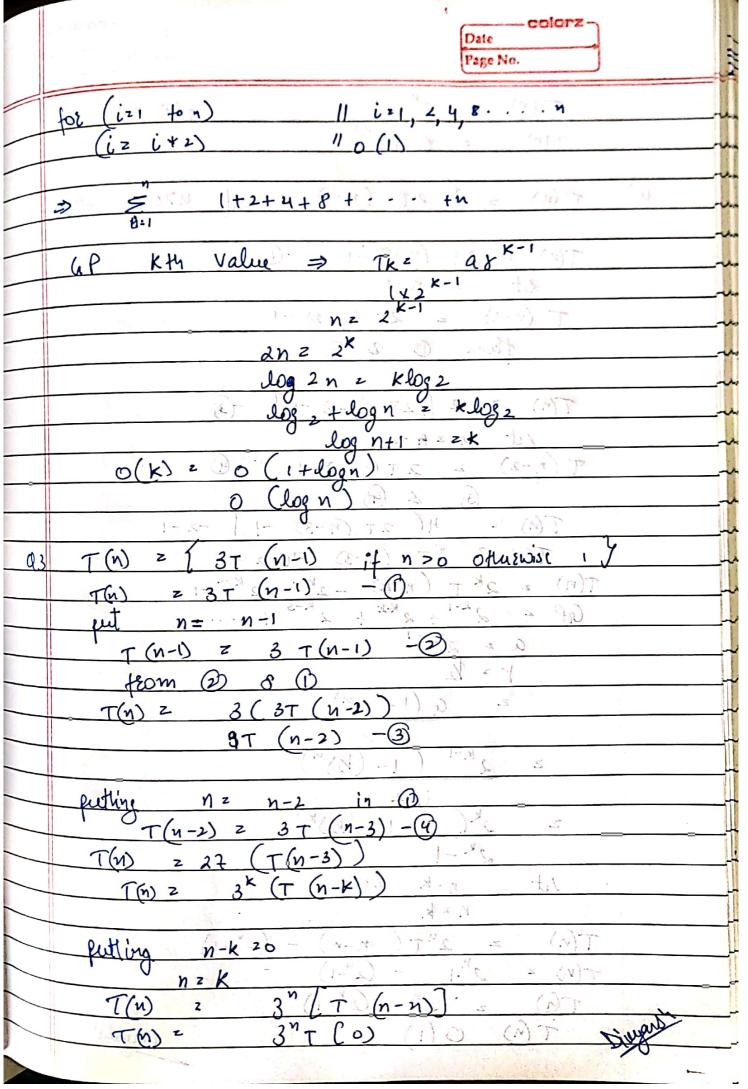
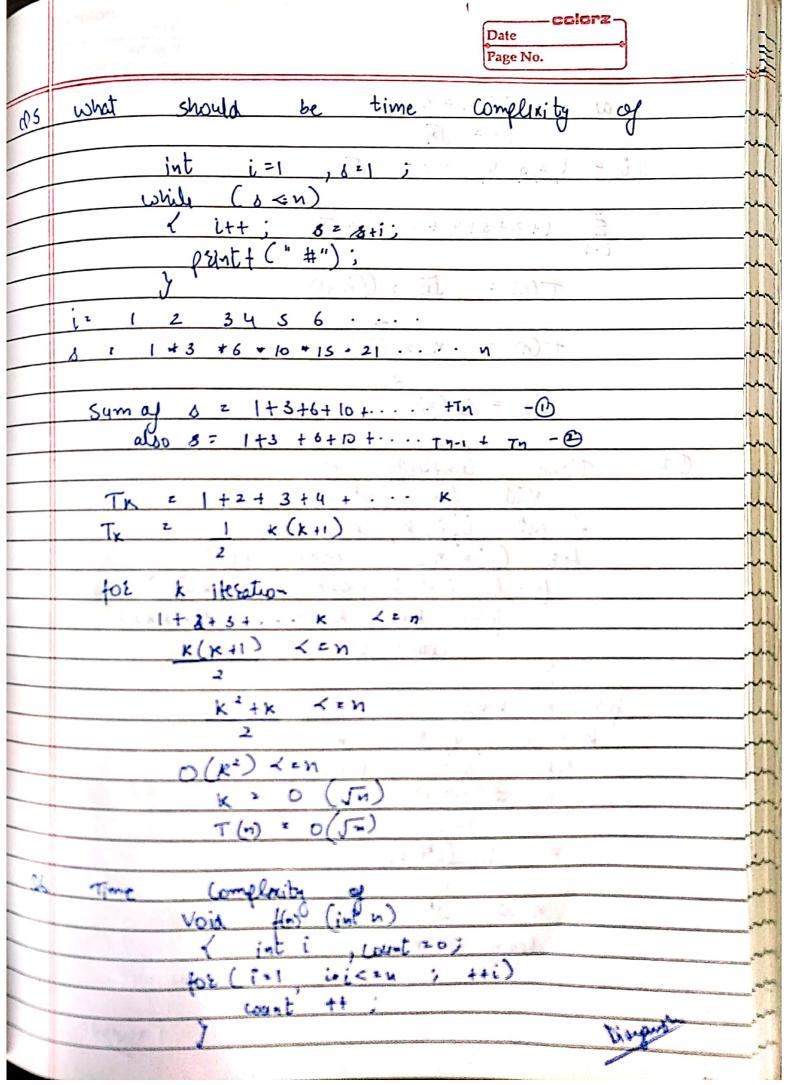
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	Tutorial -1	Cay Var Con	_
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	Section: - CST Spl2	. A J. Maril	_
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Ų1	Asymptotic Notation Les Tending to infinity) = (a)-F	ن ر
	They help you find the compe	lexity on aloneitum	_
,	when input is very large.	C. S. CM I	-
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1)		ren t	_
	Cg(h)	f(n) z O(g(n))	_
	The state of the s	$f(n) \leq c \cdot g(n)$	_
	The state of the s	come constant C>0	-
	108 3	tight upper bound	ᅦ
	Size of input no of	f (n)	1
	Size of input ". uf	2 3 (17)4 (19)	
1	(9) to 10	M) haven	_
(1)	Big Omega (sc)	(E)	_
	+(M) = 12 (g(M))		4
	go is tight lower bound		_
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	iff f(n) 2 c. q(n)	of input	_
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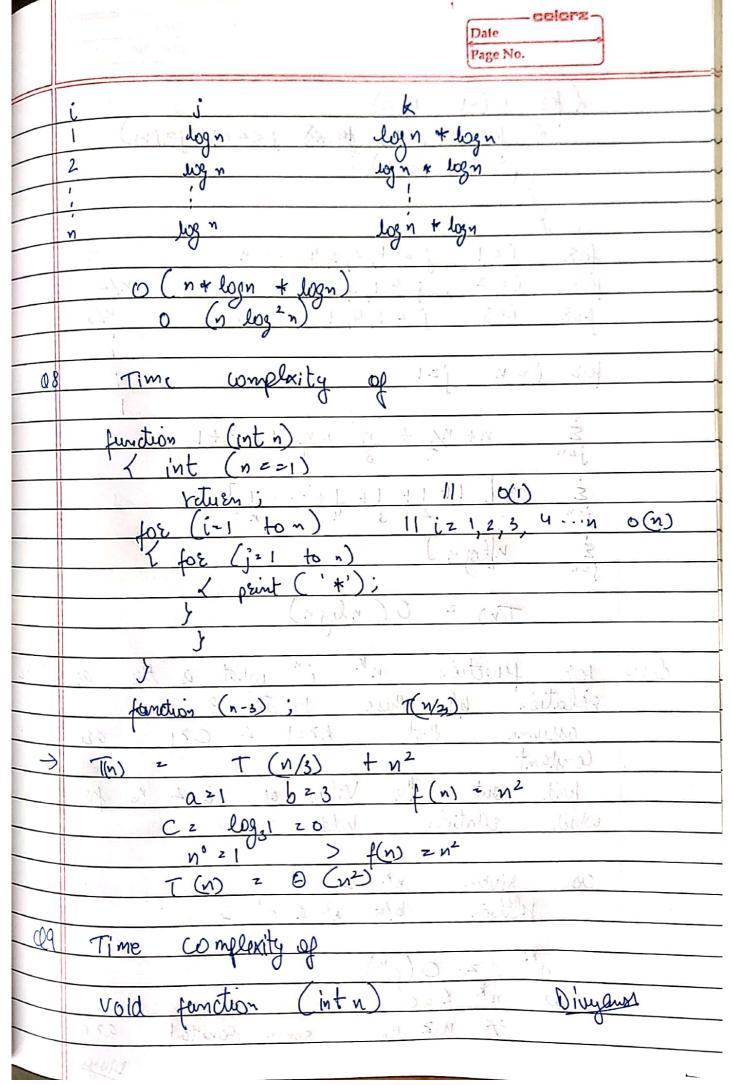




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8-1	(0) 71	
	T(n) = 3" × 1	No.
	$T(n) z O(3^n)$	
/ - -		
<u>u</u>)	T(n) = 2 2T (n-1) -1 -if n>0	other 1
	T(n) = 2T (n-D-1 = -0)	9-11-11-
	Let nzn-1	
	T (n-1) = 2+ (n-2)-1	
	from O @ @	
<u></u>	in in a second second	
	T(n) = 2 [2T (n-2)-1] -3	
	1.t y z h - 2	
	T(n-2) = 2T(n-3)-1 -0	
	3 6 4	
	T(n) = 4(2+(n-3)-1)-2-1	
	T(n) 2 8T (n-3) -4-2-1	10 3
-	$T(n) = 2^{k} + (n-k) = 2^{k-1} - 2^{k-2} - 1$	1
	(of 2 2 2 + 1 + 2 + 2 + 2 +)	19
	$a = 2^{k-1}$	
	Y = 1/2	
	$z = q(1-y^n)$	
	1-Y	
	z 3 (1- (1/2)")	
	1/2	tra -
	z 2k(1- (k2)k)	
	2 ^k -1	
	Let n-k =0	
	n=k	
	$T(n) = 2^{n}T(n-n) - (2^{n}-1)$	4
-	$T(N) = 2 \cdot 1 - (2 - 1)$	
	$T(6) = 2^n - (2^{n-1})$. 14
-	T(1) O(1)	
L. I.		And the second



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	i <= Jn	He
	i = 1,2,3, 4, In	
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	E 1+2+3+4++Jn	
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	T(n) = In x (In +1)	
-	.2 . 3 2 N & 2 1 - j	
	T(m) = n.x (m - 21 + 01 + 2 + 2 + 2 + 1 + 1	
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	5(m) = 0-(n) -+0)+2+8+1 = 1 10 mp2	
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	y Count ++13> (1+21)x	
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	z a(yn-1)	Harri
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-	$z \perp (2^{k}-1)$	H. Carlo
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-	NZ) 2K	100
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