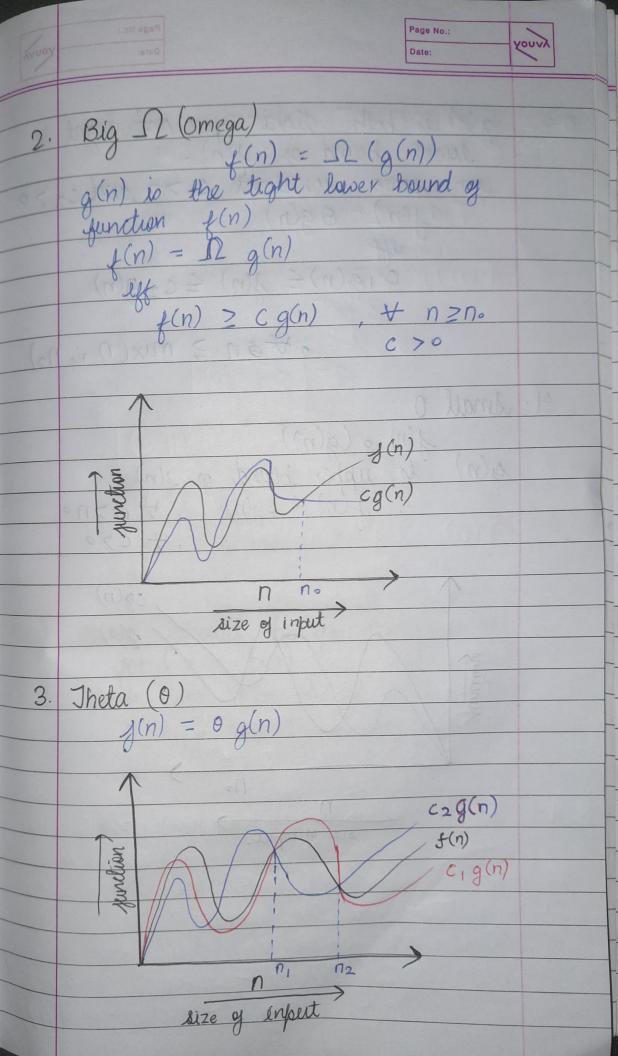
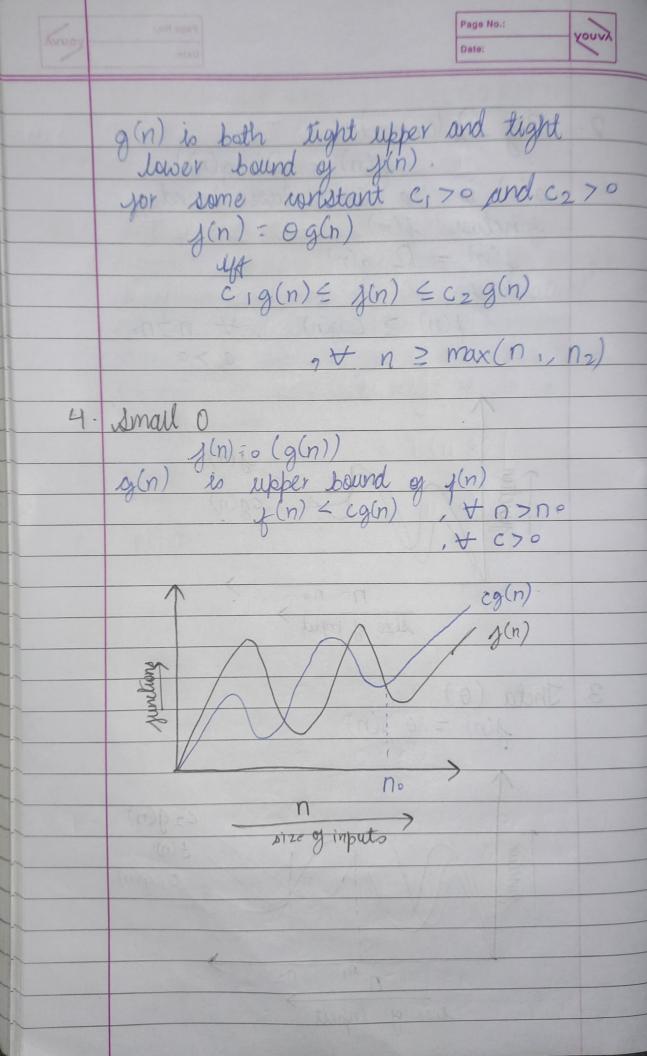
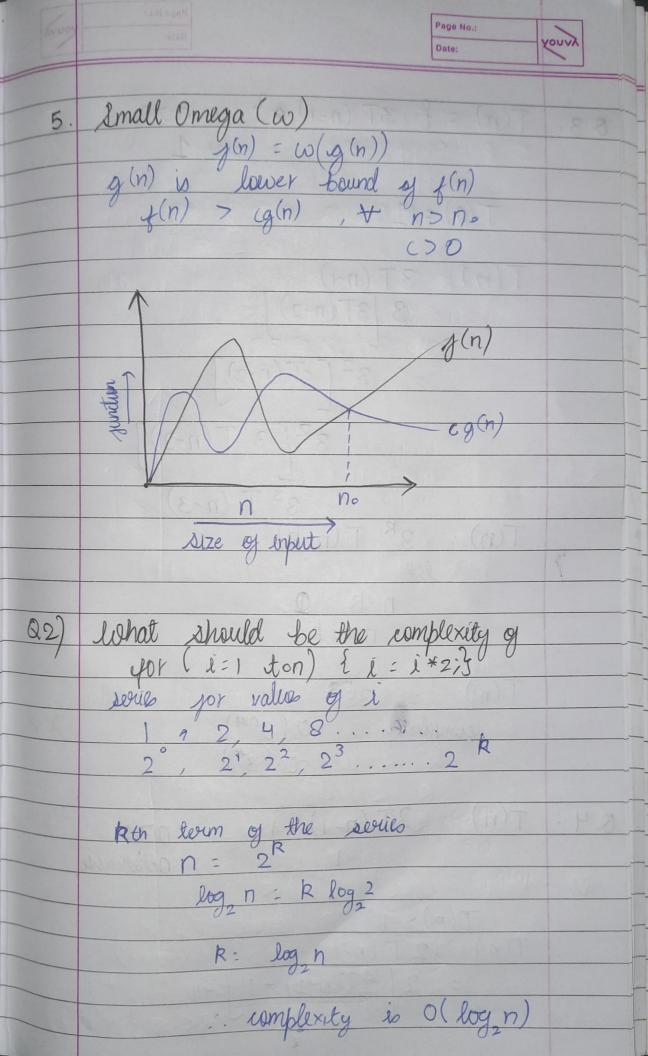
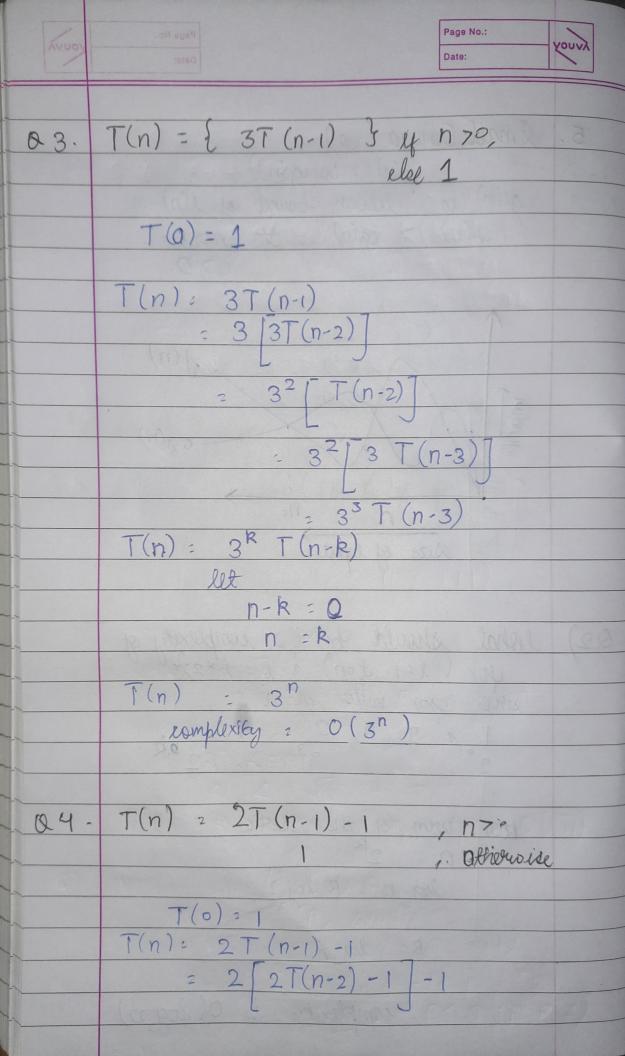
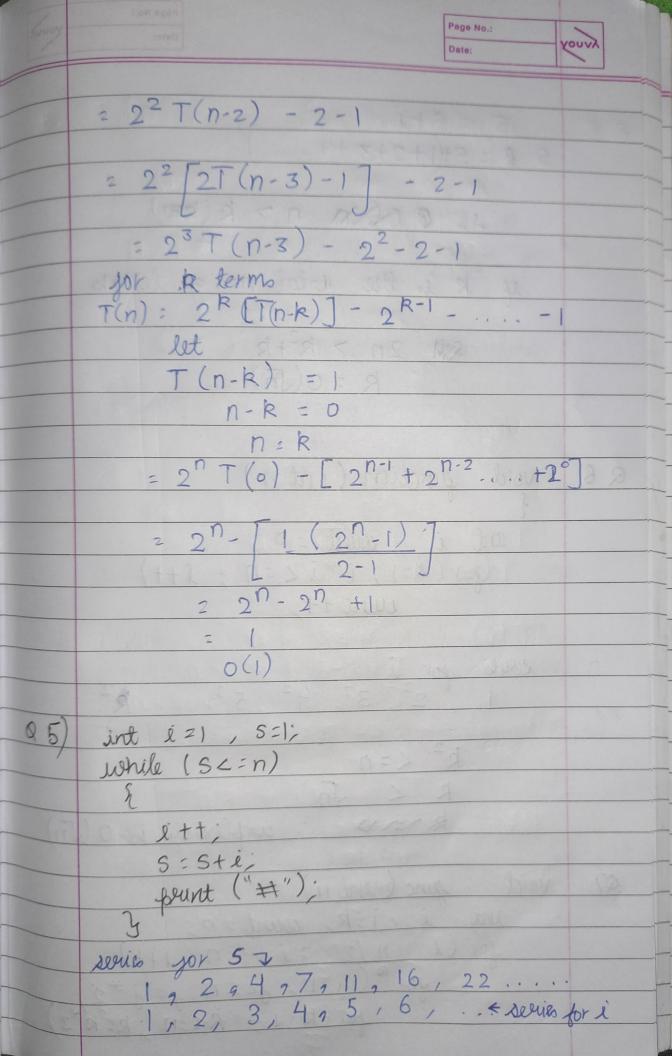
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	DESIGN and ANALYSIS & ALGORITHM		
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1	Jutorial -1	1-4500	
Q) I	What are dsymptotic notation different symptotic notations are the sonatations are the sonatations used to describe the time of an algorithm when the towards a particular value limiting value.	with en mothemation e sunning e input	ampus.
	TYPES	Ab none	
1.	Big O	VA ROOM	
	eg(n)		
	/ f(n)		
	1 month on no		
	size of input		
	g(n) = O(g(n))		
	iff		
	$f(n) \leq c g(n)$, $\forall n \geq n_0$		
	$f(n) \leq c g(n)$, gor some constant, $c > g(n)$ is tight supper bour	nd og t(n)	

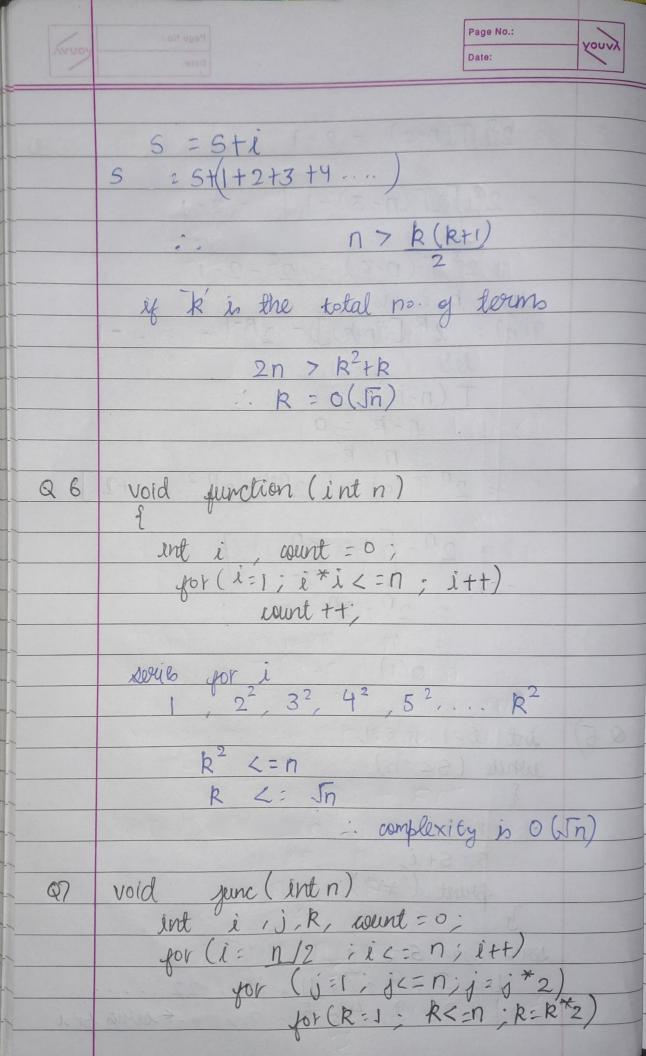


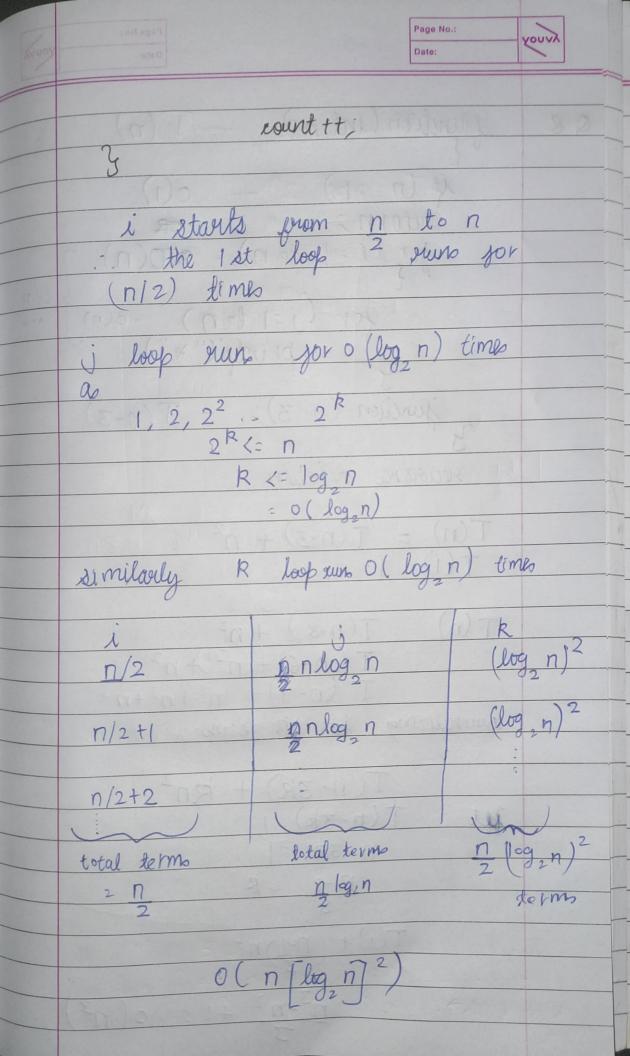












Page No.: Date: function (int n) - T(n) 8 8 if (n:=1) - 0(1)

neturn;

jor (i:=1 to n) - 0(n) por (j=1 lon) -o(n)

printf("*") junction (n-3); - T(n-3) recionerce relation $T(n) = T(n-3) + n^2$ T(1) = 1T(n) 2 T(n-3) + n^2 T(n-6) + n^2 + n^2 T(n-9) + n^2 + n^2 + n^2 generalizing for R terms $T(n-3R) + Rn^2$ Jet T(n-3k)=1 n-3k 21 N-1, 2R T(1)+ (n-1)n2 $\frac{1}{2} \frac{n^3 - n^2}{7} + (2 \circ (n^3))$

