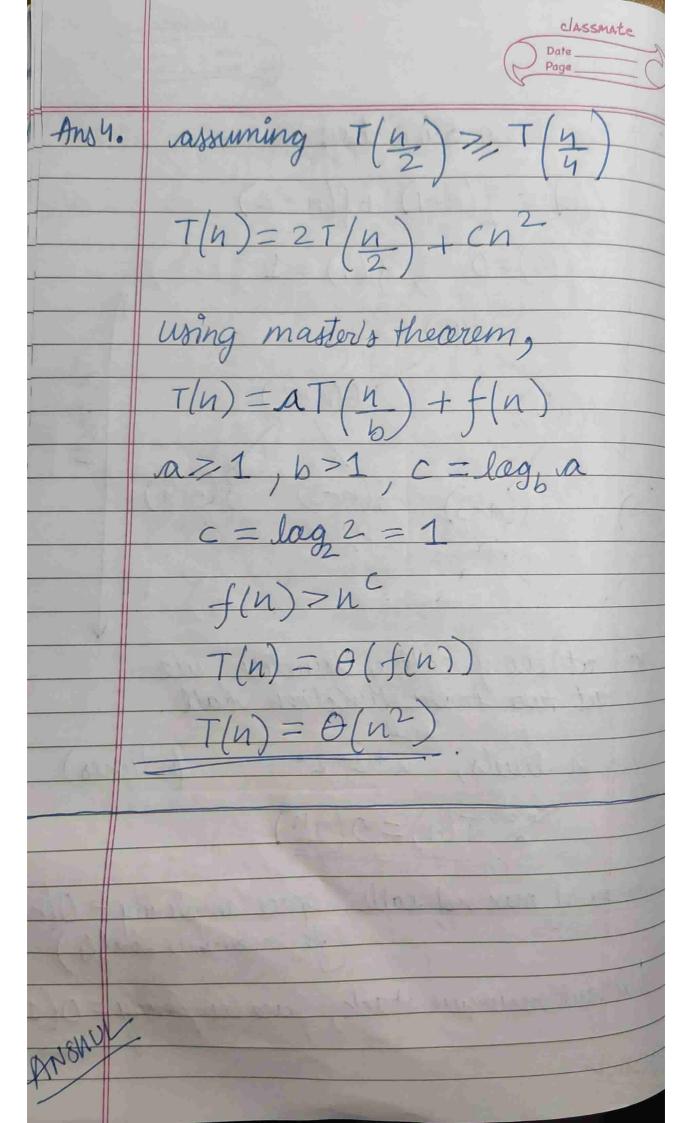
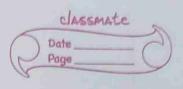


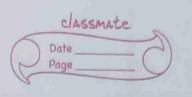
Ans 2. For Fibonacci Leries: (n) = f(n-1) + f(n-2)fin so at every call of function we get two more function call. 00 T(n)= In case of max not calls, Space Complexity = 1 Without recrusive stack, Space Complexity

classmate Ans 3.) n(logn for (i=1; i<=n; i*=2){ for (j=1; j <=n; j++) SUM += 1; for(i=1;j<=n;j++)? for(j=1;j<=n;j++) for(n=1;k<=n;k- cout<<i+j+k;for(i=2; i<n; i=i*;
cout<<i; ANSWY L





Aus 5. Inner loop depends on i heching no of iterations of inner loops for each value of i, $\frac{h-1}{1} + \frac{h-1}{2} + \frac{n-1}{3} +$ n log (n-1) - log(n-1) nlægh Time Complanty = 0/n/log MUL



		Date Page
Ans 6.	for (i=2; i<=n; i=paw(i,k))	
	3 // 0(1)	
		l m
	$i = 2^{4}$	° 2 K <= n
	1 = 100 2 K2	$k^{m} = log(n)$
	$i = 2^{k}$ $i = 2^{k^{3}}$ $i = 2^{k^{4}}$ $i = 2^{k^{4}}$	$m = log_k(log_2n)$
	t.	
	i = 2 km	
	and O(1) for m times.	
	$T(n) = O(\log_{R}(\log_{2} n)) + O(1)$	
	Time Complexity = O(log (leg n))	
ANSI		

