	Date. ————————————————————————————————————		
	Ajay Pratab Kardari Section D		
	ROU NO: 62		
	Tutorial:02		
0	void fun cintn)		
	int j = 1, i = 0		
	3		
	2 3 3		
	y 10		
	k = k(k+1)		
	K.(kH) <h< th=""></h<>		
	or $k^2 < h$ $k < \sqrt{h}$		
	TC: OCNT).		

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2:	Fibbonacci Series with recursion	//
	int fibbo Cint n)	1
	if (n ==1)	/
	if $(n = 1)$ return 1; else if $(n = 0)$ return 0;	
	else return fibbo(n-1) + fibbo(n-2)	
	3	1
	n _ 0 1	
	n-1 $(n-2)$ $3'-1$	
		_
	$(h-2)$ $(h-3)$ $(h-3)$ $(h-4)$ $2^{2}=9$	
		_
		_
1	. 0	
	2",	_
		_
		-
	: Tic of function is O(2")	_
		/
	Space Complixity O(1)	-
•	"" no extra spau	

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	Using Recursion Function
	$T(n) = T(n-1) + T(n-2)$ for $n \ge 0$ $T(x) = 1$ for $n = 1$ i only one condition
	for n=1) : only one condition T(1)=1 hose cursive cells.
	201 A C 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3-)	Program for complexity (nlogn), (no), log(logn),
0	nlogn) Menge Sort
(2)	(n³) Printing elements of 3-1) corray.
0	(log Clogen). parfunction bride some lopp.

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3-1	in herge Sort nlogn
*	1 n ³
	Continuity (its)
	for (i=0 iisnii++)
	forci=0; jen; j++) forck=0; ken; k++)
	& for (k=0; k <n; k+t)<="" th=""></n;>
_	a a and a contract of
_	arr [i][i][k]=i+j+k;
	2
	: 100
	2
:::	1. 1. (1.)
	-) for log(logn)
	•
	for Cinti=2 ; cn; i=pow(i,k)
	3
,	1100)
	2 :
	k & constant.
	· · · · · · · · · · · · · · · · · · ·
-, -, -, -, -, -, -, -, -, -, -, -, -, -	10/ 1/08 W
-	for nlogn int alocal (Int n)
	2
	for andi=1; 1<0n; itt)
	for 11 dj=1; j<=n; j++1
	\$ 112012

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5	int fun (int n)
	P
	for (inti=1; ic=n; it+) for (intj=1; j <n; j+±i)<="" th=""></n;>
	for Cinti=1: 1< m. itti
	1 (OU) Tank)
	9
	4
	1 (inner fromp)
	2 : : : : :
	2 n/2
	» h/3
	1 My Marine
	k h
	, K
	n
	Andala nin n n
	total: n+
	= n(1+11)
	2 3 n/
,	: h + \(\frac{\x}{k}\)
The state of the s	= n + log(n)
	TC = Ochlogn).

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6- for (ind i=) ; i = pow (i, k)) K & constant 110(1) i can take values as it for iteration 1st and. 3rd 1 = 6 K 1 = 2 K 1 i = 2 ki-1 ith Coop ends for $2^{(k)i-1} < = 0$ or $2^{(k)i} < 2^{(k)}$ $k^i \mid \log_2 < 2^{(k)}$ i logk <= log (logn is log (logn)

