	Tutarial - I
Ansi)	void hundian (int m)
(0.3.)	(or his) mailsonely bies
	ind j=1, i=0; j=2, i=0+1+2
	int j=1, i=0; $j=2, i=0+1+2$ while $(i < n)$ $j=3, i=0+1+2+3$
0	i=1+4
	i=i+j loop ande when i>=n
	3 0+1+2+3 n > n
	3 K(K+1) > 2
	2
	k2>n
	k > 1m
	=> O(m)
Ang 2)	Recurence Robin Fo Eibanacci Sories:
	T(n) = T(n-1) + T(n-2)
	$T_{0} = T_{0} = 1$
	if T (m-1) ≈ T(m-2)
	T(m) = 2 T (m-2)
	= 2 { 2 T (m-4) } = UT (m-4)
	= a(27(n-6))
	Ton = 2" T (n-2k)

n-2k=0

n= 2k

K = 2

Ton = 2 m/2 T(0)

= 2 2/2

Tm= n(2"12)

if T (n-2) = T(n+1)

T(m) = 2T (m-1)

= 2(27(n-2)) = 47(n-2)

= 4 (27 (n-3)) = 87 (n-3)

= 2" T(n-k)

1-K=0

[K=n]

T(m) = 2 x 7(0) = 2"

= T(m = 0(2") (upper bound)

(463; m>i; 0=i hii) ref (= ((mpl) n) 0 (& ent

for (in) j=1; j<n; j=j+2)

(1)0 smal 11

3 3

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	C= log a = log 2 = 1	
	Compare n° and f(m) = n²	
	So, Ton = D(n2)	
Ans 5)	(or haid muf him	
	Jan (int i=1; i c= n; i+1)	
	Ja (int j-1; jen; j+=i)	
	11 some 000 y-1	
	3 = 1 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 =	ntimes
0	} \ \(\frac{1}{3} \)	notes when a sky
	7=5 1-1	K 350 31244 3 W
	i=2 = j=1	servit or
	1=0	K > 3
	i=4 k>	Ž,
Mohan	i=√ Teacher's Signature	

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2 000	AND DESCRIPTION OF	Charleston (Inc.)	-	-	_

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So. Total complexity = 0 (n2+ n2+ n2+ ...)

Anec) for Cinties; ic=n; i= bus (i, ks)

11 some (1)

3

complexity of pow (i, K) - O (log N) - log(K)

1-2

i=2*

i = 2 K2

i = 2 k3

i = 2 K4

if orm

neder akno food

Drm > 2

lao (2 m) > lao

made chil

M log(k) > log (logn)

M> log(logn)

T(c) = O(log Clogn))

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Date	Page No
Ans 8)	
9)	100 × log n × In × n × log (log n) × n log n × log n! × n! × n² × log 2° × 2° × 2° × 4° n'
	1 < Thogn < logn < slogn < slogn < slog 2 H < N < 2 × 2 × 2 M
0)	John on son changen on logen on lagen of
0	
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