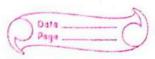
	The state of the s
	Totorial > 4
A.I	+(n)= 3+(n/2)+n2
. /	
710	
	dog a = 10g 3
	= 1.92 = K=2
	logba KK Hence 3rd Case Applied.
	i.e loga < k if p≥0 O(n k logn) here p=0
	here p=0
	T. C = O(n2)
(92)	T(n)= 4T (N/2)+n2
Dus	here a=4, b=2   K=2, p=0
	log b = 2 /16=2
	if p>-1 O(nklog P+1n)
	it b>-1 Q(UK 100 DEIN)
	-c- cc. 2 1 1
- 2	TC = O(n2 logn).
03>	$T(n) = T(n 2) + 2^{n}$
Aw	C= 1092 f(n)= 24 n= n0=1
NAVE	= 0 $f(n) 7  $
	2771
301	
	$\left[T(n)=O(2^n)\right]$

	7)	
	500	1
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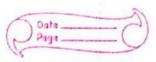
<b>B</b> 4>	$T(n) = 2^{p}T(n/2) + n^{n}$	
	Martin metris a	
	because 'a' is not constant but	
	Depends on 'n'	1932
000>	T(n)=16T(n/4)+n	L ON
wk	100g a = 10g 16 1(=1, P=0	A SE
		1.00
	= 2.	
	271	
	:- [TC= O(n2).]	1.70
	0. [[C-O[N].]	
06>	$T(n) = 2T(n/2) + n\log n.$	
An	10g a=10g 2=1 12=1, P=1	
(**	db d2	
	10g a =1	1
	T(= o(nlog2n)	1
		1
(87)	$T(n) = 2T\left(\frac{n}{2}\right) + \frac{n}{\log n}$	1138
1000		10.00
Am	$c_1 = 2$ , $b = 2$ $K = 1$ , $P = -1$	Table
	10g a = 10g 2	10.8E
	= 1	120
	109 α = 1C	11.00
	J. O. P.	
	TC= O(nloglogn)	
		100



4
T(n)= 2+ (n/4) + n0.51
a= 2, b= 4
loga=log2= 6.5 / 1<= 6.51, P=0
OB 94
10g a = 0.5
98
0.5 < K
T.C= O(n0.51)
T(n)=0.5T(n/2)+1/n
a=0.5, b=2 K=-1, P=6
log a = log 0.5 = -1   K=-1
Op Q5
$\log \alpha = -1 = 12$
OB
T.C= O(n-logn)
TC = O(log n)
$T(\gamma) = 16T(\gamma/\gamma) + \gamma!$
a=16, b=4 K=1, P=6
loga = 2
Og
loga710
energy and a second second second
$T \cdot C = O(n^2).$
T(n)= 4T(n/2)+10gn
a = 4, $b = 2$ $K = 0$ , $P = 1$
log a = 2
(Section of Marie

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019	T(n)= 3T (n)+nlogn.
du	109 a= 0.79   K=1, P=1
	logba Ck
	[T.C=O(nlogn)]
017)	T(n)=3T(n)+n
Any	a=3, b=3   K=1, P=0
	$\log_{10} a = 10$
	T.C = O(mlogn)
018>	$T(n) = 6T\left(\frac{n}{3}\right) + n^2 \log n$
Ang	a = 6, b = 3 $1 = 2, P = 1$
	100 a = 1.63
	10g a < 16
	T. C = O(n2logn)
019>	T(n)= 4T(n)+n (n)
Ans	$\log \alpha = \log \gamma   K=1, P=-1 $
	= 2

12.	Date Page
	10 - 21
	Log a > K
	T. C= O(n2)
	The same taken
- B20)	T(n)= 64T(n/8)-n2/09n
Mu	T(n)= 64T(n/8)-n2/09n log a=109864 / K=2, P-1
	The second of th
	log a = 15
,	T. C= O(n210g2n)
· 0 - 1	
	$T(n)=7T(n/3)+n^2$
	$a=7, b=3$ $1 = 2, \rho=0$
-	log a= log 7=1.73
	109 9 4 18
	OB
	T. C= ()(n2)
	1=7 5=31 1 = 3 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0
<u>S22</u> }	T.(n)= T(n/2)+n(2-(esn)
- Dry	$a=1, b=2$ $\log_{b} a = \log_{2} 1$ $\log_{b} a = \log_{2} 1$
1	log a = log 1
	= 0
	1096216
	[T.(=0(n))-
3.	

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