abject: A Lul	Date. ()	
	Jol sie C	مرى: رما بط 1 زگستى: درخت كنك
T(n) - Y T(n)	$+ o(n)$ $T(1) - o(1)$ $F(x, 1) > \theta(n)$	
T(1) < c,	$\lceil (n) \mid Y \rceil (\frac{n}{2}) + C_{Y} n$	
	$\lceil (n) < Y \rceil (\frac{n}{r}) + C_r n$	مارى دولى ايم در اهل نوتي زارد)
I($ \frac{T(n) + c_{\gamma}n}{T(\frac{n}{\gamma}) + c_{\gamma}n} \xrightarrow{C_{\gamma}} C_{\gamma} $ $ \frac{n}{C} \xrightarrow{T(\frac{n}{\gamma})} T(\frac{n}{\gamma}) \xrightarrow{T(\frac{n}{\zeta})} T(\frac{n}{\zeta}) \xrightarrow{C_{\gamma}} C_{\gamma} $	n — jili isologi n n — Crn
ř .	رادبرُدسال ۸ ۸ ۱ ام آنر (۱)	10gn = n
	$\sum_{x \in \mathbb{N}} n + n \times c_1 = o(n)$ $\theta(h)$	gn)
T(1) : C	$T(n) = \Upsilon T(\frac{n}{C}) + C_{\Gamma} n^{\Gamma}$	(r dt
T($ \begin{array}{ccc} & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & $	$ \begin{array}{ccc} $
شعاد بُرد ساراً فر	مر ارتاع درت (ارتاع د	تعلع ردخت ﴿ لُوالًا اللَّهُ ال

T(n) = < 1 n 10) + < r n 1 (1 + "	- + (")" + · · · + (15/1.17	in all a graduation and a
***************************************	مهرون ار مهمدار تا	and the same of th	***********************
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$= O(n^{t}) \longrightarrow \Theta(n^{t})$		anogeting material appearance and	and the superior of the superi
		error married teles to construct the military and the	·
$T(n) = \alpha T(\frac{n}{r}) + c_r n^r$	Τ	LICENSE CONTRACTOR CON	(T) Lie
(T) + C7 XI		THE THE PERSON ASSESSMENT OF THE PERSON ASSESS	***************************************
T(n)		C. pt	enerologies deservir
$\frac{C_{1}n^{\gamma}+T(n)}{C_{1}n^{\gamma}+T(n)}$	Jin I Tin 1	& C. nt	************************
Cr nt C	F	BITCENT	, y g g g g g g g g g g g g g g g g g g
19		(7)	***************************************
		(E) . C / vc	***************************************
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		7	الرجماع دراه
I(n) = C, n 1. 2, + C, n [1	6 (417	(a,1.gr 7	1
		(2) (2)	
$\overline{I}(n) = O(n^{i \cdot j \cdot r}) = o(n^{i \cdot j \cdot r})$	۳۲)	. N : 1252	
	(***	م ررنت از لتر	F & () E
$T_1 = C_1$ $T(n) = a T(\frac{n}{b}) + C_1$	n K	0	13 (1)
ta I(n)	eynk a cynk		
$C_{T}\left(\frac{\eta}{h}\right)^{k}+\overline{T}\left(\frac{\eta}{h}\right)$	a gnk		
ъ, в,	P _{IC}		
	$\left(\frac{\alpha}{4}\right)^{\dagger} c_{\dagger} n^{k}$		
	bk		
<u> </u>	<u>:</u>		***********************
Ţ(I) =	n logi balla		
[3]}	n 1006 bolls	1.97	ارتناعی
		0 0	

Year. foo Month. \(\square \) Date. \(\square \)
Subject: $\Delta \sim \Delta \sim Y$ Year. foo Month. $\forall Date. I = I$ $T(n) = C_1 n^{10} \int_0^{\infty} + C_1 n^{10} \left[\left[\frac{1}{b^{10}} \frac{\alpha}{b^{10}} \right]^{\frac{1}{2}} + \left(\frac{1}{b^{10}} \right)^{\frac{1}{2}} \right]$
*
$ \langle \gamma \alpha \rangle_{h}^{\kappa} \rightarrow b^{\kappa} \gamma \alpha \longrightarrow O(n^{\kappa})$
Forthing instance t
$(c-l_0)_{t}^{\alpha} \rightarrow t_{-\alpha}^{\kappa} \rightarrow O(n^{\kappa}l_0)_{t}^{\kappa}$
$(\langle log^{\alpha} \rangle b^{\kappa} \langle \alpha \rangle \rightarrow o(n^{logb})$
م ازار ع رشہ م بزید تر از (ایس اُ بزید تران) مل الله ا
$T(n) = a T(\frac{n}{b}) + f(n) \qquad T(1) = o(1) \qquad i \text{fol ess}$
cose1: $f(n) = o(n^{\log n} - \epsilon)$ $= o(n^{\log n})$
$cse 2: f(n) - \theta(n^{lodi}) \longrightarrow \overline{I}(n) - \theta(n^{lodi})$
$Case 3: f(n) - o(n^{100}) \longrightarrow T(n) - o(f(n))$
$\frac{T(n) \cdot r T(\frac{n}{r}) + n^r}{a \cdot b \cdot f(n)} \qquad (\int b \cdot b \cdot f(n) $
case 3 als gin in n'edt
$\overline{I}(n) = \Theta(n^{r})$
P4PCO

$T(n) = Y T(\frac{h}{r}) + O(n^{r})$	$T(n) = o(n^r)$	maaaaanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	
$T(n) = r T(\frac{n}{r}) + r(n^r)$		and and the second seco	
$\theta(n) = r T(\frac{n}{r}) + \theta(n^r)$	$T(n) = \Theta(n^r)$		
	$T(n) = r I(\frac{n}{r}) + \sqrt{n}$		خال:
' م ب چەمىتور ؛	$T(n) = \Theta(n)$	$\sqrt{n} \rightarrow O(\sqrt{n})$ $\sqrt{n} \rightarrow 2(\sqrt{n})$	Θ (n
$T(n) = 19T\left(\frac{n}{r}\right) + n!$ $f(n) = n$ $T(n) = \Theta(n!)$	2.		
$T(n) = r T\left(\frac{n}{r}\right) + \frac{n}{r}$ $n \cdot \theta(\frac{n}{r})$			مثال:
$casc 2$: $T(n) = \Theta(n \theta^n)$			
$\overline{I}(n) = \overline{r} \overline{I}(\frac{n}{r}) + \frac{n}{109n}$ $109\overline{r}$ $n = n$ $109\overline{r}$	$\frac{n}{\log^n} = O(n^{1-\epsilon})$ $\frac{n}{\log^n} = O(n^{1+\epsilon})$	blė blė	: J6
ایر متال با مقبهامی نی تیال دل و د .	10g n = Θ (n)		