e de la companya de l	Assignment-1	Date
100 K 100 K	We are trained to the	(数) - 16为(为) (1) (6) (6) (1)
1 O Given-	algo of order O(n2)	ic when imput size n = 10
	Cive output in 5s	ic when imput size n = 10
M = 10	therefore $10^2 = 5$, therefore $(5 \times 10)^2 = 6$	section of the property of
N=5), they (5x10)2=	25 sec
	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- to	2 N=1011th	output time will be 25 sec
	DAY TO WAR	All Marie and All All All All All All All All All Al
1 Circh	$- \int_{A_{-}(n_1)} = n^{2} - \frac{1}{2}$	-(1)
	IB(n = 2n2	
	CK HOLL	
Tor	ret-of & break (
	208 - 1 - 2	(1/20/60) -
	$\gamma^3 = 2\gamma^2$	$\frac{y(y-L)=0}{2}$
		X - N = 2
	i cution a or are	ek point is 8. n = 2
Barrale	rase - It is the h	metion which performs and input deter of n elements.
avera	ce number of socoso	in input deta of n elements.
wyos	cose- St is the	fun which performs any
thing	xhmim no-d steps	in which performs and on input data of size in
Mare-	Average performan	rost fired in algo
<u> </u>	formance are the n	next fixed in algo
ana	lysis.	
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Date
b) Big O Notation - The Big O notation defines and upper bound of am algo, it bounds a fundament
upper bound of an algo, it bosends a fun only
from above
a Notation- Just as Big O notation pravides an
notation provides an asymptotic lower bound
notation provides an asymptotic lower bound
I notation can be useful when we have lower
Dound on time complexity of an alga
11 - 7 // 10 10 10 10 10 10 10 1
@ We have to prove n2" = 0(4")
we know that if f(n) = O (g(n))
the A since A since and a since a sinc
$\frac{1}{2} \frac{1}{2} \frac{1}$
here $(fen) = n2$
$g(n) = a^n$
n-20 4n 7 m-100 27
Using L & Rule
man 2 has a state of the
As n-100 = 2n - 2n - 20 v 1 von 1 von
Line by a second and the second
n-200 anla
\mathcal{E}_{0} , \mathcal{E}_{0}
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3 O W+ + logn + 17				
Solo di Aswe morean the value of n.				
on the hon				
at increases much more than by				
at we can a neglet the other values.				
of increases much more time then by no since can a neglet the other values.				
2. m4+ logn +17 in a O(n4).				
· ir m (mm m) co co (m)				
while K SM (C)				
X = KH				
ENDWhill (Time complicity of m).				
	7, .			
Carmin Comment				
(b) for i - 6(n-1)				
(b) for i $-6(n-1)$ $-0(n-1)$				
\bullet Supply -0 (1)				
On the second of				
$\bullet \qquad \qquad (0(n+1) \star o(n+1) \star o(1) \approx o(n^2)$				
	arek.			
9) Girm- Tg = 100"				
Te = nt.				
Growth U. 100				
	, e, f			
	RU III			
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