Nadhikal A.R. Kelas B	
14080180040	No Date
i) $T(n) = 2+4+6+9+16+ +2^n$ Deret = $\frac{a(1^n-1)}{2(2^n-1)} = \frac{2(2^n-1)}{2(2^n-1)} = \frac{n+1}{2}$	Dale (1) in O(n3) = nCrist
Day 910-11 216+ +2"	1 Big O - D D (n3) horena Oln3) = ~ Cm3)
31 - / - /	Marku $\theta(n^3)$
10010Si Dig O -> O (20)	
100 7 7 7	4) Algoritmon Penjumlahan 2 mattiks
2-1-11	For i & I to n do
2-2-6	For j = 1 to n 10
Misan n=1	Mi) (4i) + bi)
	eng tor
2) Buktikun bahwa P,U,r Positif t(n)=Pri	tatt eng tor
aboloh O(n2) a(n2) a(n2)	$\Gamma(n)=n^2$ $\Omega(n^2)$
* Pembuktian Big O * Pembulitan Bigso Le	$\frac{(n)(n) = n}{(n)(n^2)} \qquad \qquad \frac{n^2 = (n^2)}{(n^2)^2}$
[(n) & Cr(n) T(n) ≥ ((n)	N.ECV.
Pn2+9n+r=6. n2 Pn2+9n2+ = 201	14 (31
Par + 91 + 12 = C.h Misal n=1 pair =	10 (n2) krn O(n2) = 2(n2)
P+4+5 P+4=2C	
misal n=1 +1+1=0	5) Algoritma mencari larir
marcal Dea-ral C =3	For < to n do + (n) = n
1+++56	G; € b;
033	eng Zon
* B19 @ KIN O(n2) & n(n2) terbying samon	(O(b) 2(n)
maka O(n2) pun benar	1 NECO 12 Cm : O(n) = 2(n) -00(n)
	CZI C51
3) tentulan Kompleystos Wahtu	
Wil & Win dun wir hervions schangen ingli	6) a) overasi porbandinan
$\gamma(n) = n^3$	t(n)=(n-1)+(n-2)+(n-3)++1 = $\frac{n(n-1)}{2}-\frac{n^2-n}{2}$
Big 0 +0 (n3) B19 2 + 2 (n3)	2 - 2
$n^3 \leq c \cdot n^3 \qquad \qquad n^3 \leq c \cdot $	1) 140 (1)
C31 C=1	b) mut pertungan tenado hatma
e de la companya de l	. n(n-1)/2.
30 Lines, 6 mm	

•	No Date
c) Leon Pierisitas wantu	(8) operas: Assignment
· Proct Caco	May Pe
Derbandingan to nonth	bn & an Mary
t(n) = n(n=1) = n2-n	bn = 9k+bn+1, × nkall.
	(1.10
· worst case	1(h)=1+n
Personlingan + ninit	O(n) untuk Pz
asignment - n(n-1)	Algoritma P
	Pertambahan = n halv
Tmax (h) = n(n-11) + 3n(n-1) = 4n	(m) perkanan -n kan
2 2	
= 2 ₁ ² -2n	make pr Jebin balk hin lebih
$O(n^2)$ $O(n^2)$	Ke Cil dor: P
2n2-2n5(n2)=2)(n	
マーション 12-11201	N 3
020 (50	
:, O(n2)=2(n2) -> O(n2)	
7) 07 A1901 VTMO A -> 0 (109)	0)
B-0 (h10	q n)
c) 11 C-DO (n)	
N1-8	
-A-> O(109 0) > O(3 109 2)
0 20(8 100 8)=0(27 (00 1)
- 15-V (A2) - 0	(64)
in corporat day O.	30\
A telcebut day O.	
>	