// Honor Code : On my honor, I pledge that I have neither received nor provided improper assistance in the completion of this assignment.

// Signed: 이경민, Student number: 22100487, Class: 02

## Lab 9

Manage to the same		
	70=7(1)+1	T(N)= T(N-1)+N-1
Stanton of Idal	T(3)= T(i)+2	Madalata
2210049 0 75H		(U-1) +(W-1)
Problem 1 - insertion	sort	(N-1)
T0=1		
T(N) = T(N-1) + N-1		
7(4) + 4		
T(N-1) = T(N-2) + N		
T(N-2) = T(N-3) + 1	<u>V-3</u>	
T(2) = T(1) + 1 =	- 2	
		NAMA
	1/01	
Ital = TOI	(6.6)	
T(N)+T(N-1)+T(N-2)+		
T(N-1) +T(N-2) + T(	$(0-3) + \dots + (3) +$	TW+TW+T(N)-1-
-1 1 1 1 2	17 1 1/01-	March Copen Forms)
T(N) = 1(1) + 1+ =	-737 -1119110	1)+1/1-1) (open form)
-(N)=1+ NKO	-1)/2	(closed torsu)
T(N) = O(N=)	(hig 6)	
		DENAL
		(2,
	211.	(J=2)
		50

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Problem 2.
·
T(l)=  $T(N)=T(N-1)+1$
T(N-1) = T(N-2)+2
T(N-2) = T(N-3) + 2
$\tau(z) = 3$
T(N)+T(N-1)+T(N-1)+T(N-3)++T(3)+T(4)=
T(N-1) + T(N-1) + T(N-3) + + T(1) + )+ )++ 2
T(n) = TU+2(n-1) (open torm)
T(n)=1+2n-2=2n-1 (Closed farm)
T(N)= O(n) (Big 0)
1001-QCH) (10g 0)

22/00487 0/2/02
Problem 3.
(0)=1
T(n) = T(n+1)+1
T(n-1) = T(n-2) + 1 T(n-2) = T(n-3) + 1
((N-2) - 101-5) T
T(2) = T(1) + 1 = 3
TO = I(0)+I=2
T() T() T() + 1+1+1+1+1
T(n)+T(n-1)+T(n-2)++ T(1) = T(n-1)+T(n-2)+T(0)+1+1++1
T(n) = T(0) +  + + + + + + + + + + + + + + + + + +
T(n) = T(0) + n = 1+n (closed form)
T(n) = O(n)  (Big o)

