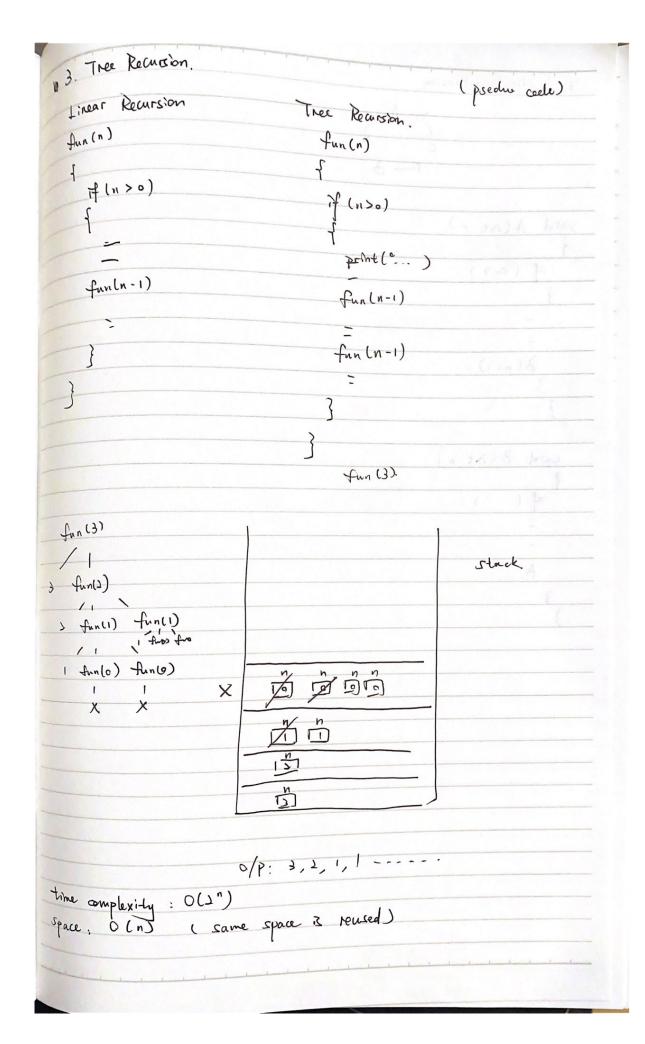
& Recursion	
Types of Recursion Types Tail Head	milesoft build
Head	
Tue	(a sa) and be
3. Indirect	
5. Nested.	(ecal)
S. It was asked to a	
a survive speed who who	
	- 1/2 1/2 1/2 mg
Tail	
1	
	ev.
fun(n-1) ← last statement.	no operation of the
}	no operation at returning time
	1 did not work
compare with loop.	
	veid fun (int n)
coid fun (int n)	1
	if (n>o)
white (n>0)	1
7	printf ("g'd", n)
printf ("% d ", n);	fun(n-1);
n)	entra ,
	rki —
	fun (3);
fun(3)	
	I time same.
amourt	of time same. Oln)
O(n)	Branch Signer 20 minus
space.	y -> O(n)
0(1)	

1. Head Recursion. f fun (int n). f(n>0) operation fun(n-1); t ne lives before the call

printf("%d", n); only de things returning time. fun (3) lasp. void fun (int n) while (n>e) void fun (int n) int 1:1; while (i (> n) 7 buyed (, de of , 1)? 144; head recursion Cannot be easily converted into a leap. time com Space :



4. Indirect recursion. r- B void A (int n) 7 (4>) B(n-1); void B (int n) A

5. Nested Recursion. vard fun(int n) f

if

f int (fun (int n)) if (n>100) return n-10; fun(fun(n-1)); return fun (fun (n+11)); fun (95) fun (95) fun (96) Sum of