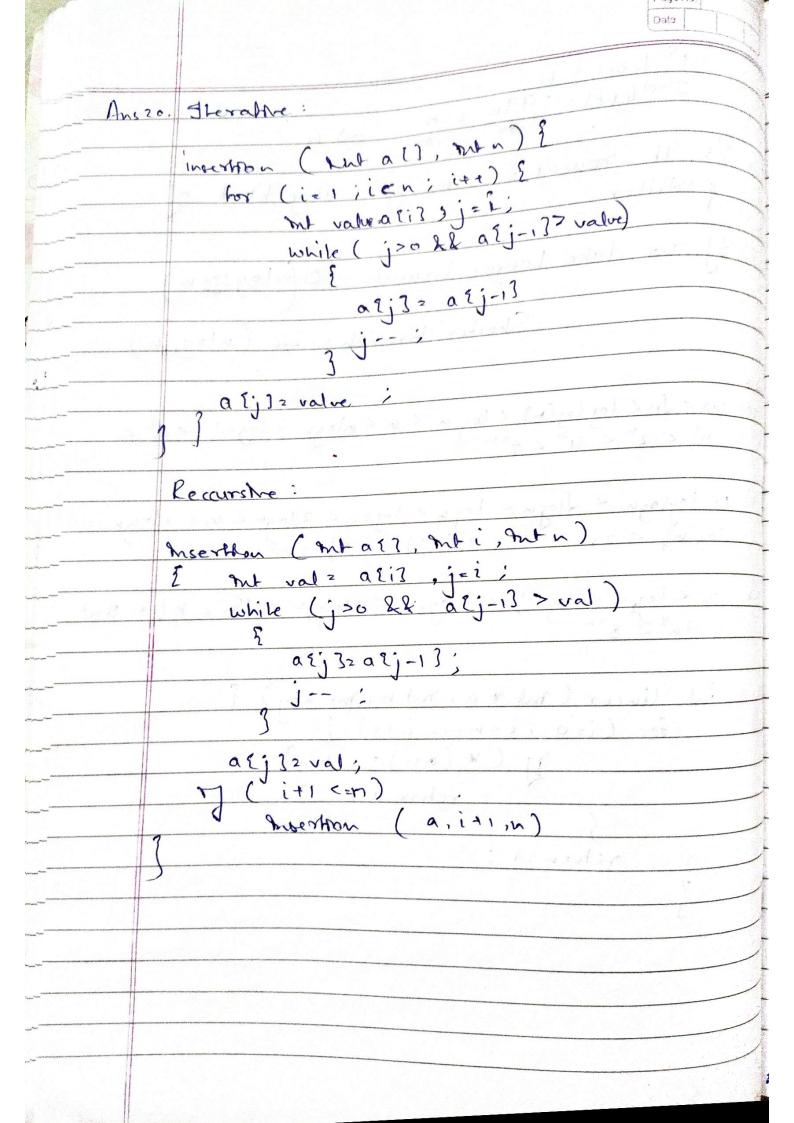


	Page No. Onto
	18t level = h 2nd level = 99n + h 100 100
	2ndlerd= 99n+h -> n
	(00) (00)
->	So, It remains same for any kind of partition
	partition
* .	I we take longer branch = O(nlog 100n)
	Shorter branch = 52 (nlogion)
•	
14N18	100 < 5n < log log(n) < log n < n < nlogn 2 logn! < n^2 < n! < 2" < 4" < 2"
(a)	100 < Ju < (of (of (v) < (od n - N - N/odn 5 /od)
	71. 2 2 4 2 2
(b)	1 < loglocum = Jiogum < logum < logum < 2logum < n < nlogum =
10	1< loglogn = Jogn < logn < logn < 2000 x 2000 x nc xlogn 2 logn 2 2 x 2 4 x 2 2 (2 h) < n1 2 n2
(4)	96 < logn < logn ! < nlogen < nlogen < Jin < N! < 8n² < 7n³ < 8nn
n	
Ams 19	
	for (i20; i < n - 1; i + 4) }
	7 (* (a+i) = = key) return i;
	3 Casteran Discounting of the
	seturn -1;
	3
	J
	₩ 하는 사람들은 사람들은 사람들이 되었다. 나는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은



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			Date	A company of the same of the s		
Ans 21		Best	Ava			
	Selection Sort	_O(n2)	0(N2)	0(42)		
	Bubble Sort	(n)a	0 (n2)	0(42)		
	Ingertton Sort	-2(n)	0 (n2)	0(12)		
	Heap Sort	-12 (nlog(n))	O (n (log(n))	G(nlog(n))		
	Outen Sost	- (nlog(n))	O(nlogn)	0 (12)		
	Merge Sort	-2 (nlog(n))	O(nlogn)	O(nlog(n)		
	Bucket Sort	2 (nak)	O(ntle)	0(n2)		
	£					
Ansz 2	. (1) Bubble sor	+ , Juserthen s	ost and sel	ection sof		
And the second of the second o	are implace s	offing algo				
(H)	Bubble and Inserten sort can be applied on stable data but selection sort can't.					
(A)	Morge sort 3 a stable algo but not In-place. Outch bort 3 not stable but Implace algo.					
	QUECKSON B W	or shaple law	- Implace o	lgo.		
(A)	Heap Sort Is a	n Amplace bu	t not stall	Se.		
Ans 2	3. int binary (hotela, Auto	() {			
	not low 20, high 2 a. length -1;					
The state of the s	mt low 20, high 2 a. length -1; while (low < > length high) ?					
	gut mid 2 (low + loga)/2;					
	ty (x2 = a luid) return mid; else the (xe < a luid) high = mid-1;					
	else the (xe < actival)					
	high 2 mid-1;					
	# NO - INC					
	low = wind +1;					
0. 16	1. T(n)= T(n/2)					