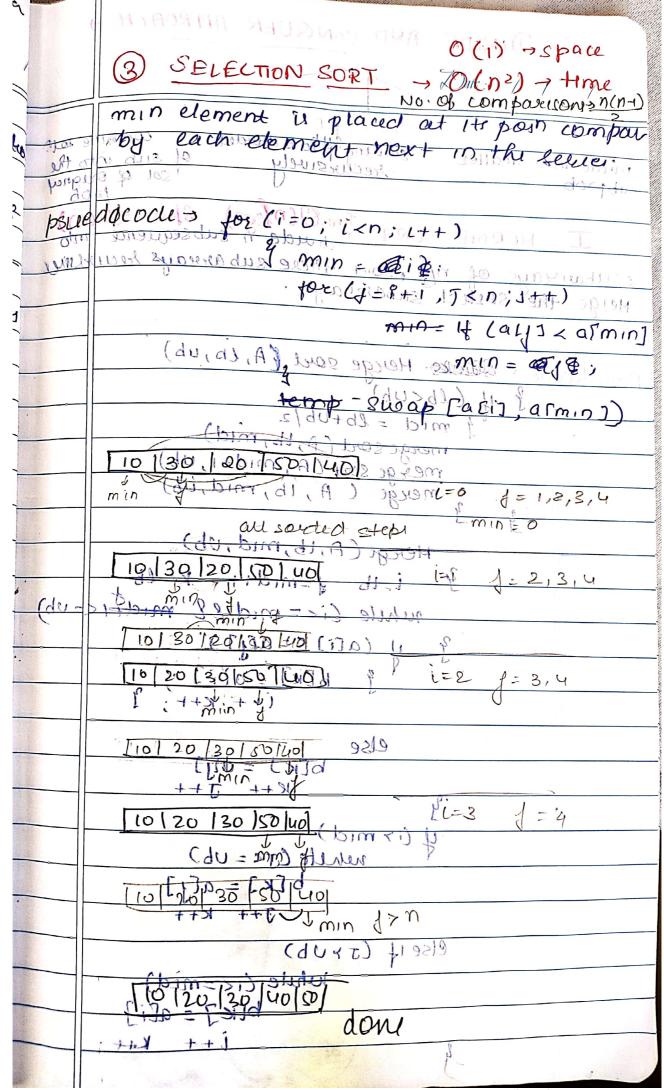
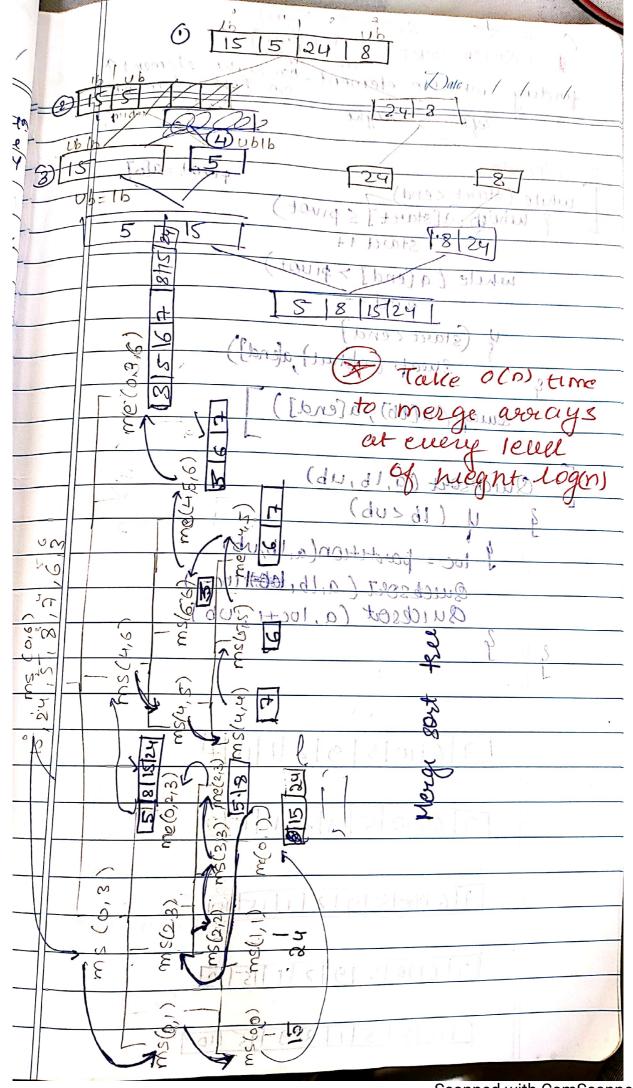


es es	Prefered where doesn't many -> complexity doesn't many -> complexity doesn't many -> complexity doesn't many
	Short code nelacu
	BUBBLE SORT O(1) - Space
	O C
\- <u>-</u>	In every pass 1st element takes it
Max swaps needed	400 D (1-1)
	1st element takes 3rd post, 2nd it = 2nd
7 N(N-1)	highlet take 3rd post & whimately an
V	highest note it last post. not 1 tercation!
Herati	are regured. = abor abusat]
(J-1)	Swaps - 1st 1t -> 1st highest - needs to two
	to reach 3rd poin max _
(T:[)	30 > to reach and poin, and higher nelds,
	Lerap wax
	Deaudo codo
	pseudo code + : t= [1] = for (i=1 i i < n; L++) -> n-1 Devation -
	tor CJ=0; J <n-1; j++)="n-i" swaps<="" th=""></n-1;>
	swap (a[j],a[j+1])
	i → 1,2
93	1 40 40 50 1 00 FN 7 3 = 3-1, volue
	= 0,1
	1401701501
	40 50 70
	40/01/2/11/5
	D=2 J=3-2 yolu
	HO CD 130 HO SWAP reeded = 0
	40 50 170 1101211
	40 50 70 - 20
	40 50 70 - done



(4)	DIMDE AND CONQUER APPROACH ,
uni) (-	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
NIO When ==	DE CONQUERT LA COMBINE
	recursively sol of original form
エ	HERGIE SORT Time (nicon) space (O(n))
- 2 Subaro	the sort subarrage.
(P.7)	[110] \$1 = 0+000
bseudord	de - Dans Herge sout (A, Lb, ub)
- (Loim	mid = lb+Ub/2
	Though the triber
	merge sort (A, mid+1, ub) merge (A, 1b, mid, ub)
	3 3
1,3	Herge (A, 16, mid, Ub) 3 i=16 ==mid+1 K= lb
4	nuhule Ci<= mid & & midter (= vb)
	3 y (a[i] <= a[y])
	(++, K++;)
	else
	b[K] = a[j] K++ J++
The state of the s	y (ir mid) [mil 52 (0.5 1 0.5 1 0.1)
	nuncle (1 = 0B)
de la companya de la	b[K] = a[j] J++ K++
Constant	else if CJrub)
	while (ix=mid) btic72 ali]
	i++ Kut.
	- J
	Scanned with CamScanner



Scanned with CamScanner

