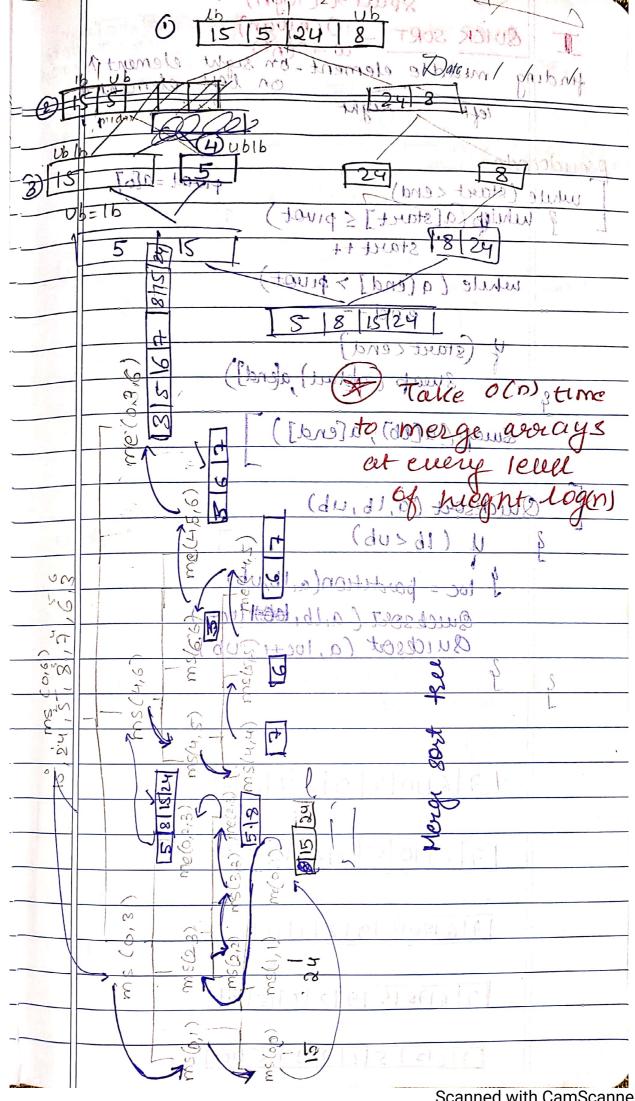


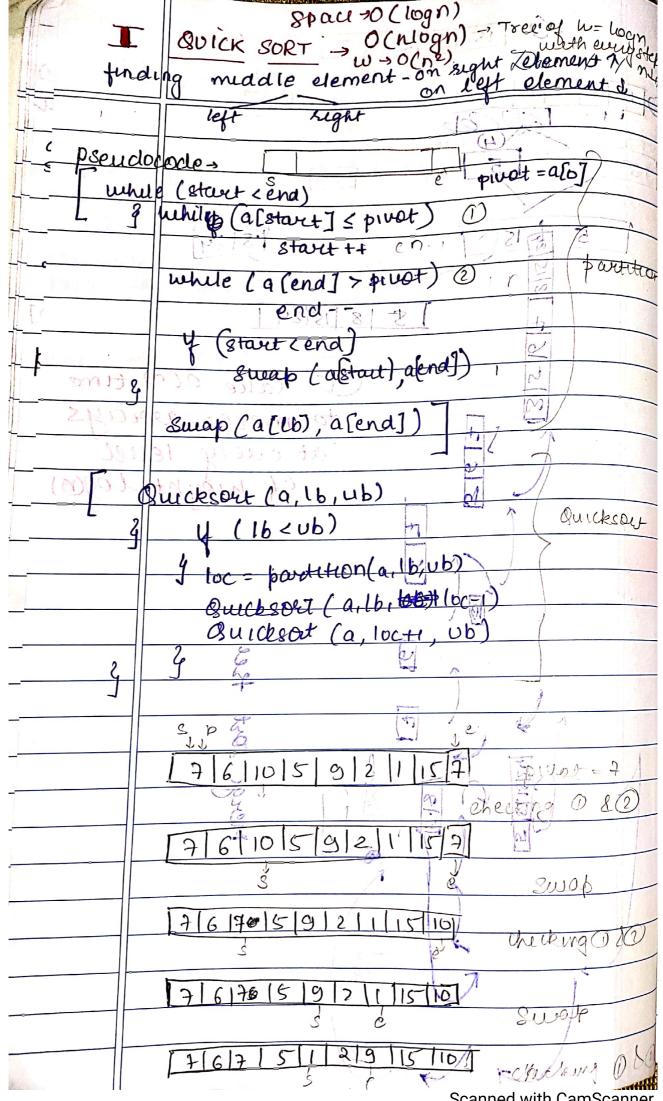
	alone d when doesn't marty
	omplexity needed
	Preferred when doesn't mother Preferred when doesn't mother Preferred when doesn't mother Preferred when doesn't mother Preferred (n2) Faithment Space
	Q BUBBLE SORT O(1) - Space takes it
4	Telement
	In every pass
Stotal o	posin - leg in 3 elemen and it = 2nd
Max swaps	In every pass Tet element takes it In every pass Tet element takes it posin , leg in 3 element - in 1st iterate That element takes 3rd posin, and it = 2nd Not element takes 3rd posin, and it = 2nd highest take 3rd posin is ultimately last highest take 3rd posin is ultimately last
-> n(n-1)	highest take 3rd post & with the highest gets it last post : n-1 iteration are sequented.
२	highest gets it last position
Hercuft	are required. ~ 91000 0000000 1 1 1 1 1 1 1 1 1 1 1 1 1
(U)0 eVr	st. 1 . ct bishest = helder thank
(M-1)	to reach 3rd post mar.
	78 Dear nel de 1
(T, [)	30 > torreach and poin, and higher nel dis 1
	pseudo code > ; += [1]D for (i=1; i < n; l++) -> n-1 brevation
	pseudo code 3 - n - Dieration
	for (1=1, LEI), LIV for (J=0; J< n-1; J++) -, n-1 Swaps
	401 CJ = 0, 1
	of alytralifity for each
	ewap(a[j],a[jH])
17	4.1307
	i → 1,2
	70 40 50 1 00 1 00 00 00 00 00 00 00 00 00 00 0
	= 2.1
	140 170 CD
	40 50 70
	[40 50 70] == 2 J=3-2-volume
	1401801 70] 1 = 2
	NO Swap needed = 0
	40 50 70 10 20 20
	40 50 70 - done
	work

	Space Signification on Conductor Appropries
	O SOLCITAN COOR
	3 SELECTION SORT - DIENZ) - Home No of comparisons n(n+)
	min element is placed at its poin compar
- 1:08 9	by each element next mithe sevier
mobile of	min element is placed at its poin compartibly each element mext mithe level
Dolla	dococus for (120), it is in the same I
- william	Helde (the tient of it restinates.
	min= if (all 1 < almin)
	Call = Charge sout (A, Lb, ub)
. 6363	temp-swap [aci] (armin)
	means sout (A) the middle
	10 130, 120 10 10 10 10 10 10 10 10 10 10 10 10 10
	(du, bun, d), A) remain
	10/30/20/50/40 31; i= 1= 1= 2,3,4
(der-	subile Cie solding
	T10130120130 601 (170) 11 8
	[10 30 30 S0 Cuo] 1 = 2 f = 3, 4
	[it + mint g)
	110/20/30/80/30/ 92/9
	++1, ++1/
	10/20/30/50/u0/ Pi=3 = 4
-	All - mon of the
-	10 17 10 30 FSD 1001 ++x ++c Jmin 1> n
	ttx ttv Jmin (> m
	elseit (Jrub)
	(10 120 30 40 00
	ited + i don

	4)1	DIMIDE AND CONQUER APPROTE
	time.	(SO) SI ECTION SOR - (SO)
#	Marph	DE 9 71 10 CONOUER 11 Francours 29 combine to
#=		to smaller solving 3 solving of sub into the
#_	Subprob	receives 1000 1 sol of original
-		+ O(niagn) space-(o(n))
4-	I	MERGIE SORT Time (Plogn) space (O(n))
44_	-0 SULhaus	the of new mesers
	Heige (the soracl subarrarge.
	< asmin	110) H = 0+00
	hen with	de = Danes Herge sort (A, Lb, ub)
#-	pseuduce	of all (alb< Ub) - dead
-	([UIW	10 3 rif (Lb < Ub) - drott
		1 A The Hitta
		merge sort (A, mid+1, ub) merge (A, 1b, mid, ub) merge (A, 1b, mid, ub)
	· 11	4 3
-/- <u>-</u>		Herge (A, 16, mid, Ub)
<u>- </u>	4	4 isth Jamidan Kalb
		while Cic=mid && midter (=vb)
		2 y (α[i] <= α[y])
		3 BDK] = ali]; (++, K++;]
		(++; K++;)
		else
		p[k] = alj]
		R++ J++
		y (ir mid) had a sel os los
		mulle (J <= U5)
		b[K] = a[j] J++ K++
		else 14 (J > U b)
		while (i<=mid)
		bre 7 a aril
		itt Kat.
A		4
		Scanned with CamScanner



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