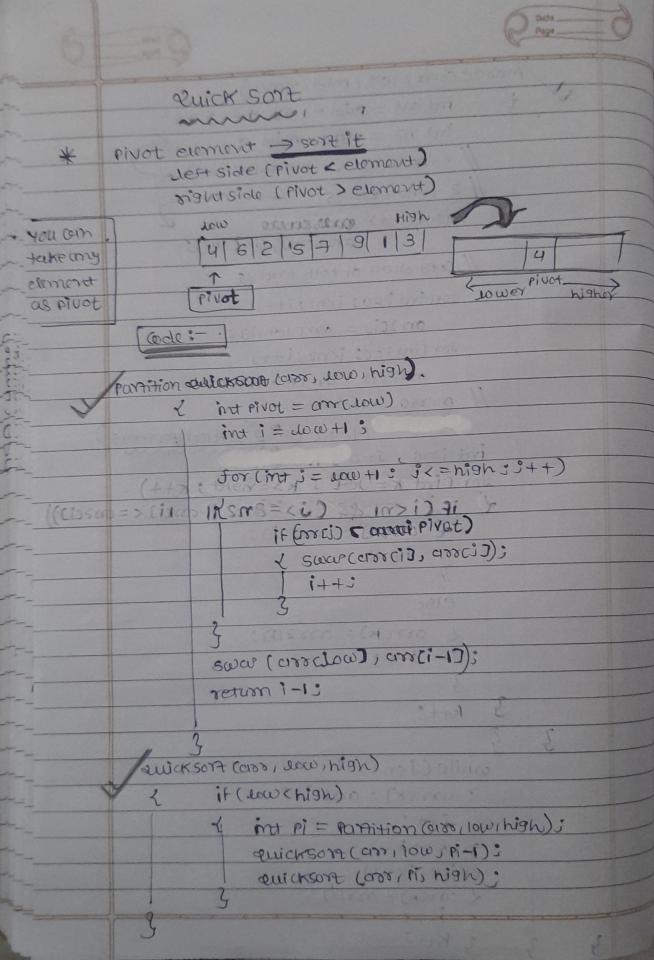
SomingtII Menge Sort Divide and Conquer (merge) * Much more offirmized sorting algo. * (main Array) [3,1,2,4,5 2,6,4,7) divides an arra n=9 Chyrothetically [216 412] 31712 415] 3,7 26 4/5/ 5/6 50790 SV (Merge) 13 4 5 ass = 038=7 I LOOKS like Recursion tree To:- ochlogn (so here we will use recursion) sc:- orn) Remarively Coivide & merge-son (prot, lett, right) > getse condition if (let < right) ind mid = Let + (right - 10+) /2 mes geson (cor, let mid); mergesort (cur, mid+1, right); merse (ar, fet, mid, right);

medge cour, let, mid, right) ind n1 = mid - 18t +2 3 ind nz = night - mid; (size of left of right sub crown) 1/2 temporarys vector cira) assin0, ass (ne): Copy olcity of both aracuss 1 tor(inti=0; i<n1; i++) to amilij = amiletiji for lint i=0; jenz; i++) etosci) = an Emid+1+i); Merge Terre crockys CLOGIC OF 2 sorted Arrays int 1=0, 1=0, K= left while (ikn) ff i(nz) if (aprz ci) (crosci)) (1) [K] = (1823 []) 1++3° Plac < 022CK) = (12250); 1-13++3 Tank 1000 K++3 while (jenz) < 4777K) = 0882Ci]; 5++3 3 K++; while (i(n1) (assek) = asseti); 2 K7+3



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Doubtive	Bubble Sort		
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5	inction (assin)		
2	\implies if $(n < = 1) \longrightarrow BO$	ise condition	
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	﴿ ((۱۱+ ناء وون د (ناء وون) الم	. 1	
	1+i)880, (i)880), (1)880) + i)	1): 7	
	3		
1	Junction (custin-1);		
5			
Recubive -	Insertion Sort		
mm			
	Junction (arrin)	> Base coneli	tion
	2 if (n <=1)	- Buse with	
	Function wistint)	1/50A JISH n-	element
	Bundlett (2007)	11 backtocking	
	int less+ = arron-17;	77 32.	
	ind j = n-23 while (js=0 ff asocj	7> ecest)	
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