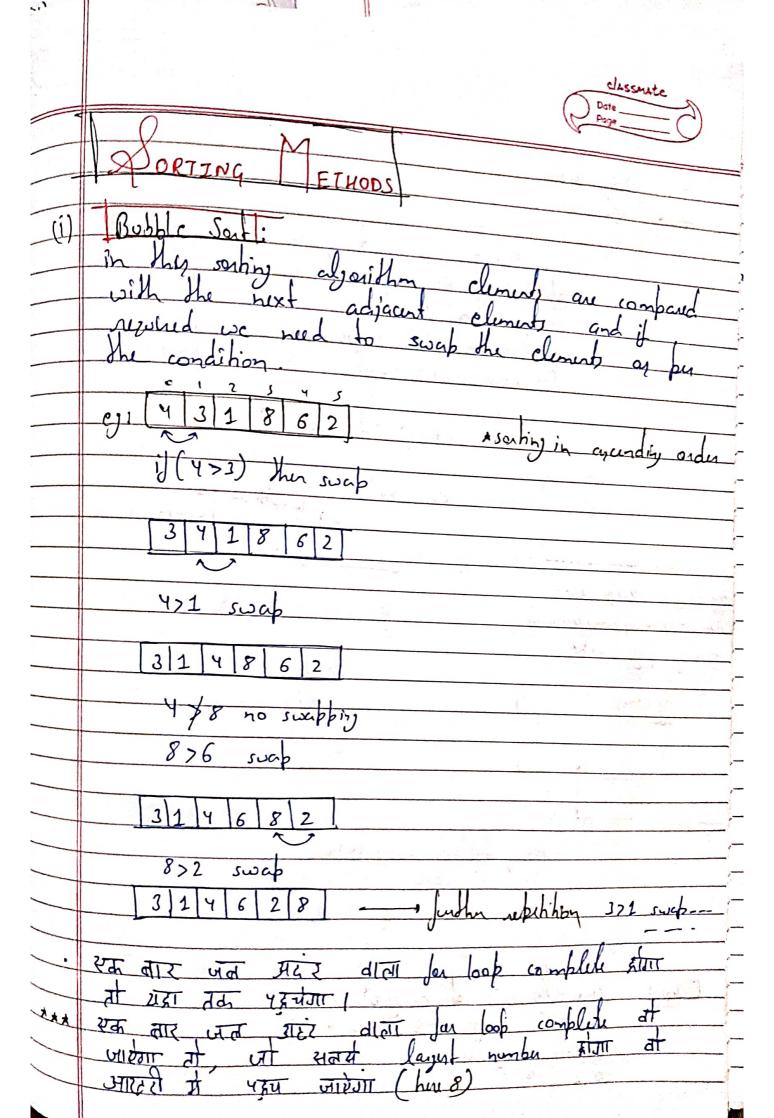
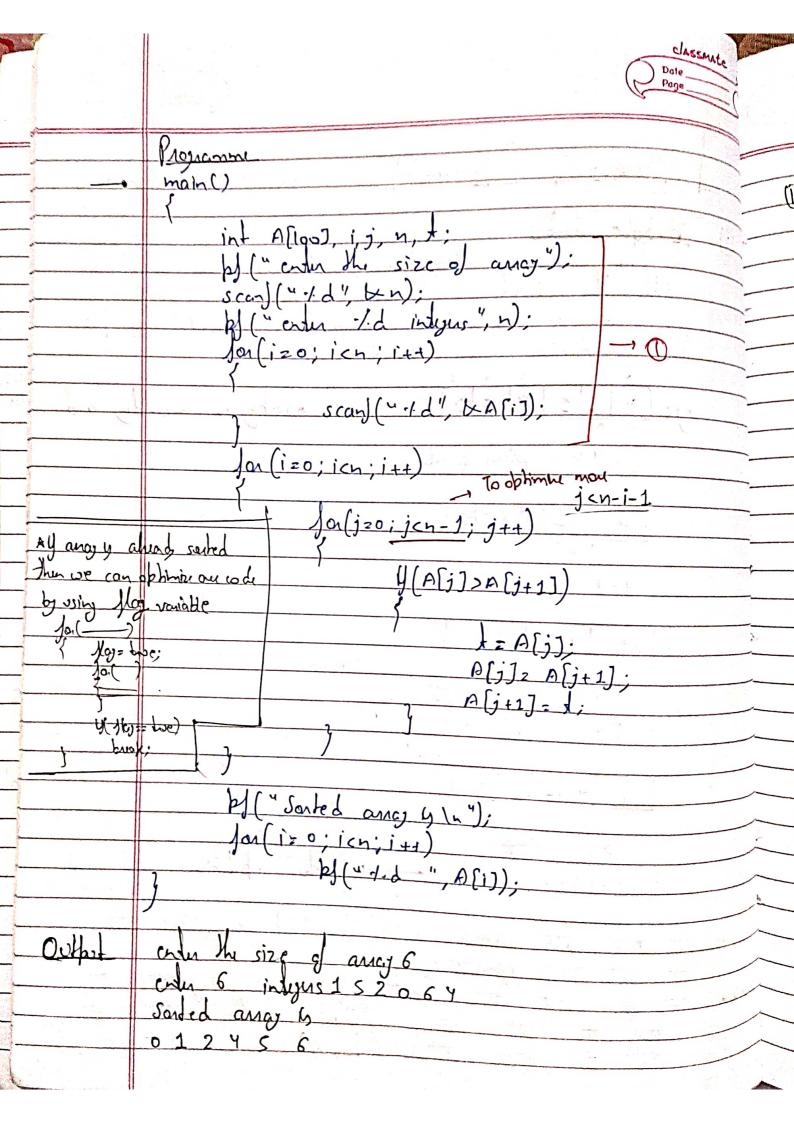
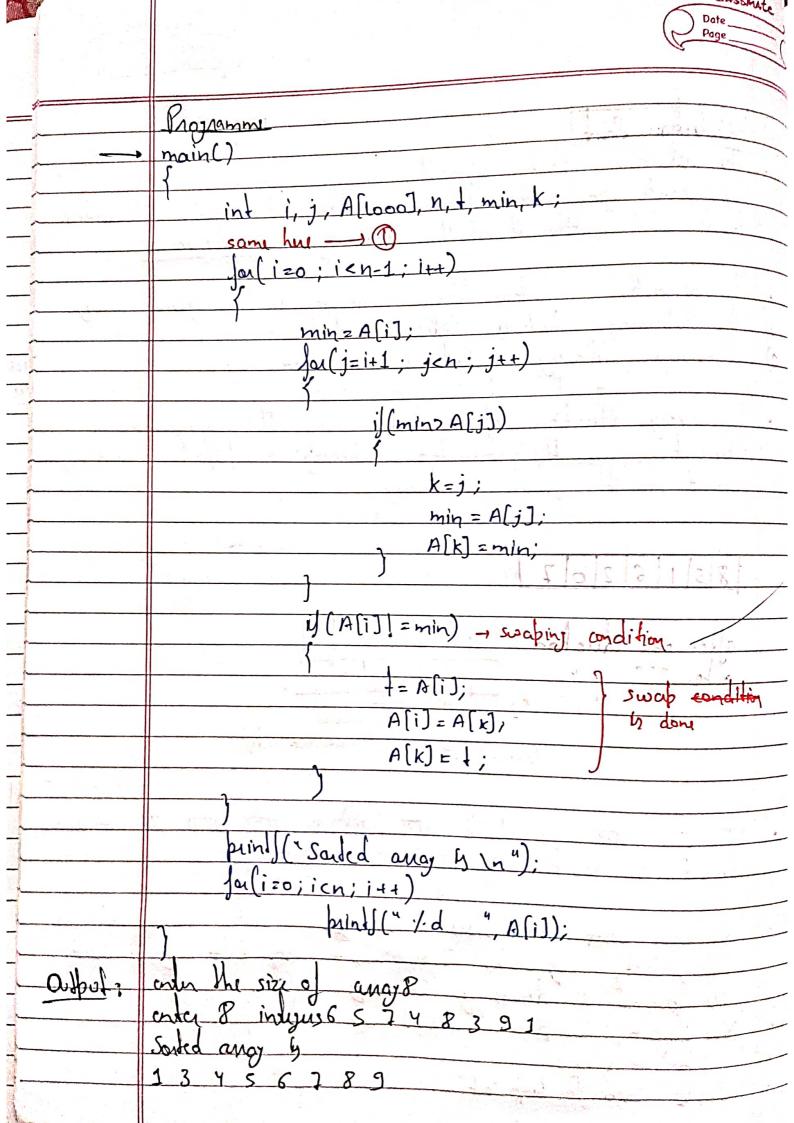
Johned 14 Web & Souting · Sord D provide sorbly of the data stand. (Amay, vector, deput) accurring in constand For Array ponts to climent after land index boish to feed index - sort (a, atn, greater (intx)) robind noinghos sort (v. begins), v. end (); sealer (intx)); - You can acode your own Comparison Inchan: int x, y; bool my comb (Point pr, Point pr) rehen (pr.y > p2.y) int main () Point a[] = {(3,10), {2,8}, {5,9}); soul (a, a+3, my comp); Jar(asto i:a) enteriner "ceinger end; olp-3 lo West y also at ser 28 (decreatly and of y value) 54

and the second	Ryhon - Tim Soil (Mux Soil + Testing Soil)
	Bython Tim Sout (Muye Sout + Insection Sout)
4.1	
C	Warst & Arciage (one O(nlogn) et Uny IntroSort (Mybrid of QuickSort, KeapSort, Inserbonsort)
•	By default it was Quick Sort of QS is doing unjour partoning and taking more than (hlogn) time it switches to Kopfort and of Array size is very small it switches to Terenton sort
	and taking more than (hlogn) time it switches to Kopsont
==	Stability in Sorbing Aborithm:
_	if two clement fixen have same value, then they should appear in the same order as they appear the
_	should appear in the same order as they appear is the
	Stubility y important when we have clements like they eg, { ("Antl", so), ("Agan, 80), ("Piyuh", so), ("Ramesh", 80)}
	Stability is important when we have clements like this
-	
-	- (Man (80), (Agan (80), (
	{ (Anl", so), ("Pizush", so), ("Ayan", 80), ("Ramoh", 80)}
	Orbot of a state sort algorithm
	V A STATE B
•	Stability is check when we have more than one clement in
	a object.
	0/p + { ("Pipush", so), ("Anl", so), ("Ayan", 80), ("Ramush", 80)}
	Instable 1890
	unstable Also doun't care of the order
4	Eg of Stable Souts: Bubble, Insulton, Meye
9	& of Undable Sol: Selection, Quicklant, Keap Sout
	of white and affinition, dans

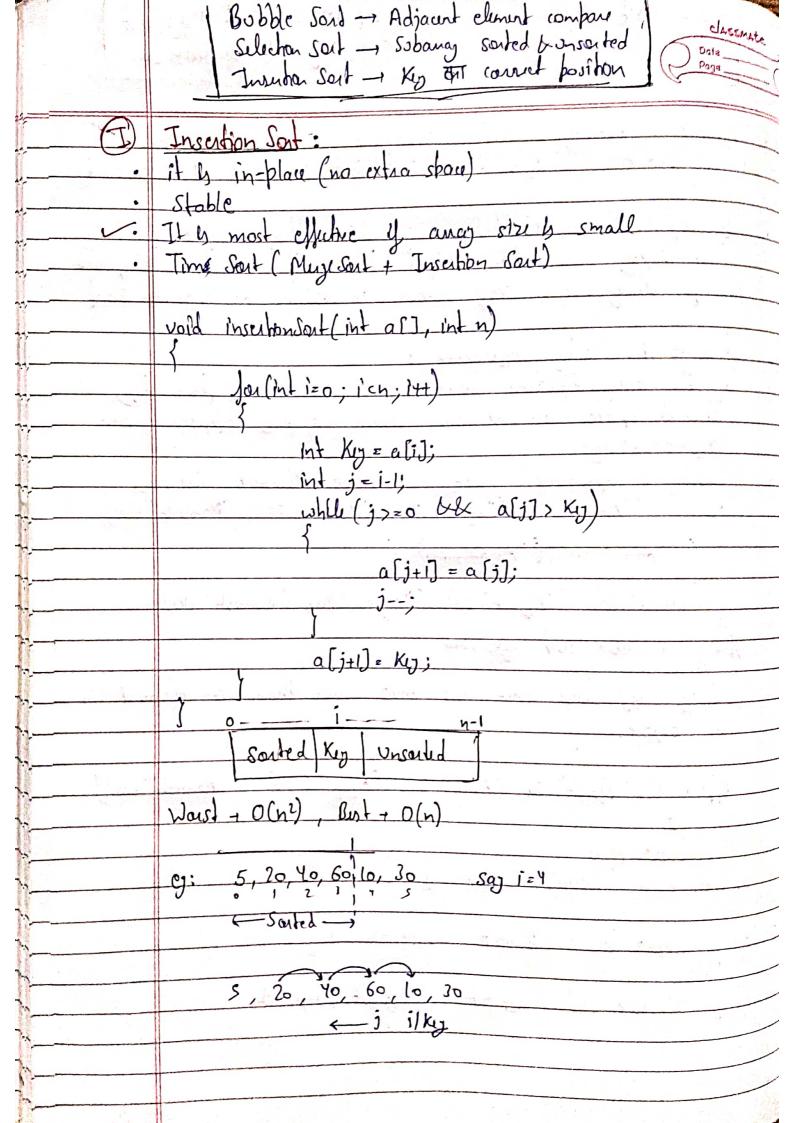


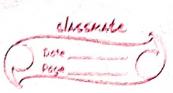


100		<u></u>
1	Delector Sort	·
JUL.	The reliction sort algorithm sorts an away by repeatedly finding the minimum climent from unsorted port and putting it at the beginning or viveressa	,
•	the reaction soft agonithm sorts an away by	-
	repeated from insum climent from unsorted	.2
	port and putting it at the byinning of viu-versa	ř.—
	The land of the state of the st	·—
	The algorithm maintains two subances in a given away. The subancey which is already souted.	·
_1)	the subaway which is already sorted	·—
_2)	Remaining subanay which is unsorted.	<u>(</u>
	1 1 1	<u></u>
•	In every bruction of selection sort, the minimum	-
-	element from the unscrited subarray is picked and	-
	In every iteration of selection sort, the minimum clument from the unsarted subarray is picked and moved to the sorted subarray.	
		-
	8516207	-
	1812/1/0/2/0/4	-
	gla on Mahon 05/16/2/87	
	912 2 0 1 5 6 2 8 7	
	subancy (unsorted side) (sorted side)	
	(sorted side)	
	The state of the s	
	clument 1st position 92 AT MIDDIT ACT and so on	
_	· · · · · · · · · · · · · · · · · · ·	
<u>.</u>	Silena Sort don les menoy willy compared to	
	Quick Carl Man Cal Transfor Cart of Bot Cycle Fort	_
	Wick Sort Meyer Sort, Turnston Sort ch. Bot Gele Fort	
•	Not Stable In-Have (deun't une extra space)	
•	O(n2) - always	
•	Basic Thea for hop sort	
1		



will such only if place. band on the principle that a new Ky its appropriate · say List 1= { K, K2, K, -- Kn-1, Kn} pass 1/2 compared to pau Ky compand to Ky, if Ki compared to Kz, if condition true swap and also say - { K, K, K, -16, 36, 4, 22, 100, 1, 54) pars -> {[16, 36](4) 22, 100,1,54} \$[4,16,36],(2), loo,1,54 \$[9,16,22,36], (loo,1,54) [4,16, 22, 36, log (1), sy) - \$4, \([1, 4, 16, 22, 36, 100] (54) shorted {1,4,16,22,36,54,100}





-1-	
	Meye Soft:
•	(divide the any in two parts, sorts there has parts, then mure this two banks)
	(divide the array in two books cook they be but the
	meye this two parts)
•	$C1 \cdot 11$
	O(nlogn) < T(O(n) < sc (not in-black) Block Muse Soul:
	Block Muye Sort:
D	Block Muye Sort: In a sorting also combining alleast two muye operations with an inscriben sort to arrive at O(nlogn) in-place stable sorting also.
	an inscriben sort to arrive at O(nlow) in-blace stable
	sorbly also.
	For Ang Quick Sort beller then MS
	For linked list MS better use O(V) Aux space
	Well solded for external sorting (bring pools of anos in PAM
	Then sort)