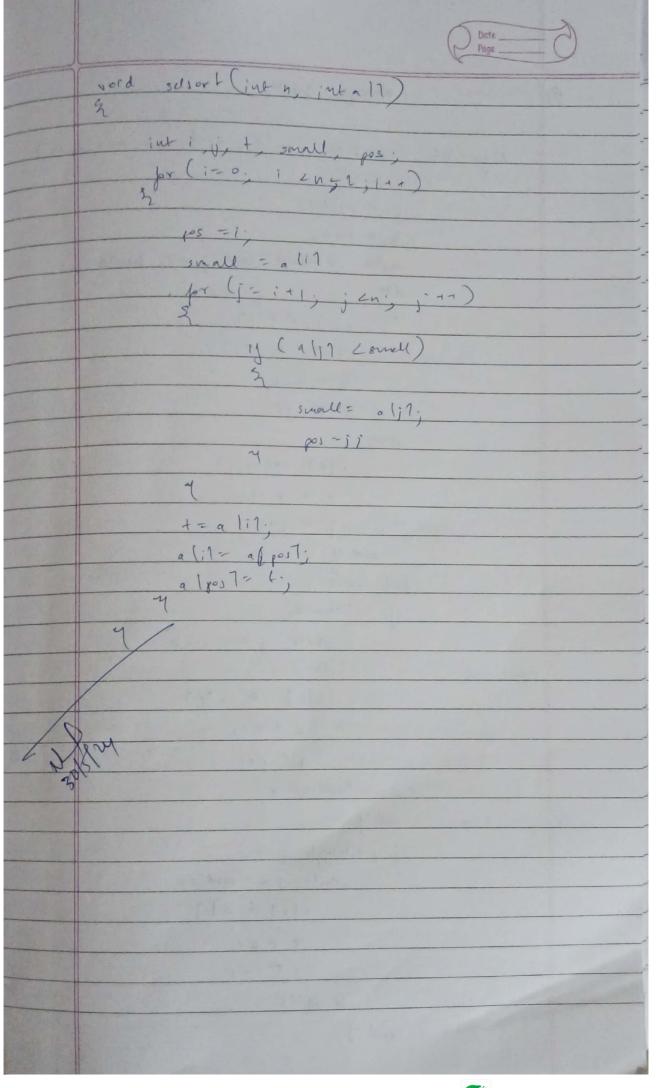
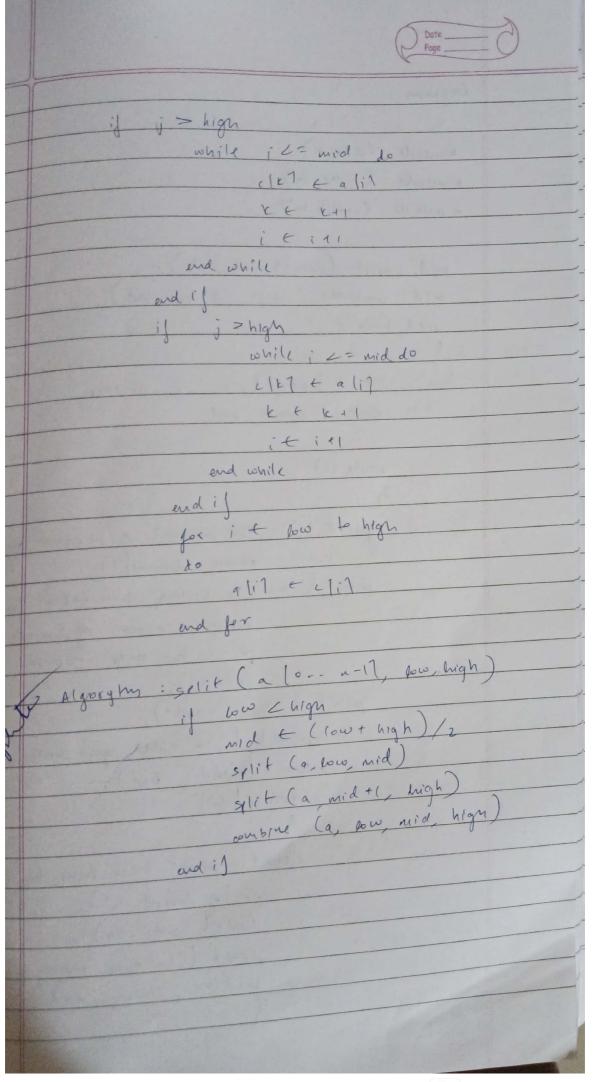
Jeledian fort And Murge Sort Selvion box -> Algorythm: rel_sort (a [o...n-1] 11 sort a given average by soldien sold
11 luput: An away a lo. n-17 of orderably dements 11 output: pray a lo. n-17 sort in arcending order small_pos & i tor jeith foul do if a fit La Tomall post swap a Til and a small-post end for program #indude Lotatoh? & include (time. 47 # include Lotalis.h > void reliert (int , int a (1). jut main () int 1/150007, n. i. j. on, tem? dock tstart and; while (1)

print ("In): for nanual cuty of N valore point & ("Inz: To display time taken for sorking number of domants in the print + (" \n3 Enter your awie: "); scant (4. /du ech). switch (ch) can 1: grint + (" \ u Ender us. of doments: "). sont (" 1.24 Un). point + ("In Endr revery demands: ") for liso, i engitt scart (4.d 4, 2a [:1) Start = doct (), sulsort (n, a) end = clock (); print (" In sorted array is: "); for (i=o; icn; itr) up print ("-1.d \ +" a 117); privot (" In time taken to sort 1-d number is 1. free in n (((double) (and -start)) (LOCKS _ 164_ SEE)) brak,

end = dock(); print ("In rime taken to soft wit (0); defaut: privat ("Invalid decise the again (a)



6	Merge Jost
	Algorytum - worbine (a (o - n-17, www, mid high)
+	
	j t mid 11 k t low
	while it-mid and je high
	do
	i) olil Calji
	erict ealit
	IC + 1C-1
	ititl
1	dre
	c/11 + a/1
	k + k + 1
	j E JAI
	and if
	end while
	i) i > mid
	while j' = high
	do
	c(k) + a lj.)
	K E K t I
	end while
	ud i
	if johngh
	while i == mid do
	c(17 ← a li)
	k + k+1
	itial
	end while
	end if



Ingram dividual Estation 47 & include (hime . h) + indude (stdlib. h7 void split (int 17, int, int). void combine (int [], int, int, int). void main () int a [15000], 1, i, j, dr, temp. dock - I stand, and; while (1) print ("In: For manual of N velly and array devients"). print ("Inz: to display how taken for sosting nuter of elements N in his sange 500 to 145004), point ("In3 so mit"); neut ("In Enter your choice: ") scant (4. fd 4 bdn); switch (ch) case 1: print (" \" Enter he wo. no. of dones : 1). print ("In zur aurau eliment)

sout (1, du 2 a (i1) break; care 2: for (1-0; iln; i+1 0 (i) = gand () / 1000 stant = doc(cl); swort (n,a) temm = 38/600. print (" In Time taken to sort yed numers is 1/1 Big Ing 1 (((douple) (und-start)) (LOCK) - IEK_SFC)

exit(0). break default i first ("Invalid doire. Hear try again geldras (); neturn of soid lisplay split (int all just low, int high) int mid; if (low Lhigh) split (4, mix +1, high); combine (a, orco, mid, high); sold combine (int all jut low, ind mid let hype inte (15000), is je & 1 = k = 10w; if (ali1 Kalj1)

