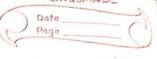
Lab-5

Soit a givereset of Nintegers weing merge vort #include < stdio. h> #include < line h> Hindude < stalib.h) void split (intl7, int, int) word combine (int[] int int): 1 a (1) & poid mais () int a [is ood] n, i, j. th, temp; i) tile clock t start, end; () And. 7 x while (a) & I me at order ent of ) there to the pentficial notice For manual letter of N value and array elements: printf (" In 2: To display time taker for costing number of elements N is the range 500 to 14500"): printly ("In3: To exit"): printly ("In Enter your choice: "): searf ("/d", &ch); (0) time pentf (" In Enter the number of climents: "); sconf ("/d", &n); printf ("In Fiter array elements: ") for ( i = 0; i < n; i ++) { scorf ("/d", &a(i)); aplit (a, 0, n-1); (Noid > wall?) and = clack (15 (doint word) = bin printf (" In Sorted Garray is is ") for (i=0; i<n; i++) ( 1) printf (it/dlt', a(i))



SECTION OF THE PROPERTY OF THE	Control Land	
	printf ("In Time takes to sort "d numbers is "f sees".	7
	((A. Me) (end -stoat))/ CLOCKS_PER_SECS	Salar Sa
	break;	and the same of th
	case 2:	Andrew Street, Sq.
	n=500;	-
	while (n <= 14500) {	Separate and a section of
	while (n <= 14500) 9  for (i=0; i < n; i++) {  1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	San
	a(i) = n-iji (tulai (illa) saidus homa	-
		-
	start = clock ();	
	split (a, O, N-1); i a loop it to the	
	end = clack(); the tents of distribution of suit	
	perity ("In Time taken to evet "d numbers is "f recs"	U
Costambe	(Idouble) (and-start))/, CLOCKS_PER_SEC);	
in Redrice	The star and n#=1000; indigita of Ent I dies	
	break; ("tim ot : Ent ) Iting	
	case 3: ( sinds sweet sold at ) thing he for	
į	exit(0); (dis the ) fines	
	break; (d.) detiner	
	3 : 1 2222	
	getchar () ja andrew Al and of ) Atmag	
Ć.	3 (68 b) hose	
	return 0; intromos queen set 3 n/ ) Itues	
	? Proposition is a sold in the	
	2((i) & "6x") Jones	
	void eplit (int a CT, int low, int high ) f	
	it mid: ( ) And : Trate	
	if (low <high) :(1-11.0.0)="" th="" tilgs<="" {=""><th>_</th></high)>	_
	mid = (low + high)/2) dule = has	
	split (a, low, mid )	
	split (a, mid+1, high);	
	combine (a, low, mid, high)	
	3	
	3	

	void combine (int al), int low, int mid, int high) & glass	
	straint c[15000] ai, jylok 13 do al estra la como and	
· (1)	steamed = dK = lowing spritzee 201 what and met neighbor 7 5	
	j=mid+1; 00241 of 002 some off ni	
	while (i <= mid && i <= high))	
	if (aci) < aci)   1 mod some sold  c(K] = aci) mod for solone off solone	
	c(K] = à Cilliands la sodmun ellest	
	++KIS ES HA (Jumple worth)	
	++1123 88 11 10 maso hater 2 "	
	some election of his solution of the all and enit	
	C(K)-a[];	
	++K; &: sinde sure asted	
	Time taken to east 500 neuroses is i 6+t 63000 teas	
	The Enter to east 1500 minderes in 12.062000 eccls	
	infis (i) demid) & is no identificated the and and	
	while (j < = high) { 0025	
	000 5 C[K] = a[k]; 002)	
	000(t+K) 0072	
	and this on the	
	\$ 0.00 \ 0.0	
	if (j > high) 2.0 cozs	
	while of (i k = mid) }	
	C(RETIT a Ci);	
	++K 1 0 0 100 2 11	
	13500 00150	
	14500	
	}	
	for (i = flow; i<= high; i++)	
	A CONTRACTOR OF THE PROPERTY O	
	a(i)= c[i];	
	}	
	}	

	Output : Land land land land land of the demonstration of the land
	A Nature was
	Tan - 14500
	3. To exit
	Enter your whom: 1  Enter the number of elements: 4: 23 22 (1)
	Enter the number of elements:
	F. I. Alleran II HA BI EE
	( at 1 again M : 11 28 33 44
	Time takes to soit 4 numbers is
	(1,1,0) = (1,3,1)
	Enter your shore: 2
	Time taken to got 500 numbers is 0.063000 key
	Time taken to jost 1500 numbers is 0.062000 sees
	Time taken to goet 2500 numbers in 0.0147060 secs
	3500 } (Ani) = 0 040000
	4500 ( 0.047 000
	5500 0.062000
	6500 0.016000
	7500 0.03/000
	9500 0-016000
	9500 0-0/6000 (1)+1
	(1500 0.03)1000
	13500 0.0160000
	14500 0.046000
	740
	(this ideal simulation of the
	(11) = (1)
11	