Sanctula Rawat CSE-H Assignment-6 1(a) Hinclude stdio h> int breach (int al], int I, int & int x) · if (a[mid] == x) ocetures mid; enotuen beearch (a, 1, nid-1, x). return -1; epaint ("Erden number") Scanf (").d", & rum[i]); nunli] = nunli]; runfj]: a;

point ("Elements in descending ouder one-far link k = 0; k < n; k++) Perint [" '.d in" num[k]).

Int val = 0;

Perint ["Enter value to be searched"). Scanf ""/.d", & val); Fresult = 5 search (9,0,5-1, val; Fresult = =-1) ? peinty ("Element is not persent"): peinty ("Element is present at pesition"/d", result). (b) Void main () int n1, n2, sum =0, Rueduct =0; scanf (" Enter location 1");
scanf ("1.d", en1);
scanf ("1.d", en2);
Scanf ("1.d", en2); Sum z rum [n]] + sum[n2]; peroduct = num[n1] * num[n2]; eperints ("Sum: 1.d", sum).

eperints ("Product: V.d", peroduct).

	Date/ Page	
2.	1/ merge sout	
	Henclude < stolio. h>	
	void merge (int a [], int l, int m, int m)	
	2 int n1 > m-l+1,	
	$\frac{1}{\sqrt{12}} \frac{1}{\sqrt{12}} \frac{1}$	
	int left[n]) right [n2];	
	for (int 120; i <n1; i++)<="" th=""><th></th></n1;>	
	lefetij=a[l+ij.	
	porlint $j=0$; $j< n^2$; $j+t$) light $E_jJ=aEm+l+jJ$;	
	Hight Lj	
	100.0	
	int 50; int Rol;	
	while ((2 <n1)&&(g'<n2))< th=""><th></th></n1)&&(g'<n2))<>	
	5 in / lost [i] (= qialet [i])	
	2 if (left[i] (= sight[j]) 2 a[k] = left[i]	
	i di	
	2	
	5 2 6 h 7 2 0 0 0 + \$ 5 7 2 0	
	2 ack] = right kj];	
	2 1 + ;	
	3	
$-\parallel$	Rtt	
	5	
$-\parallel$	while (i <n1)< th=""><th></th></n1)<>	
$-\parallel$	Za[k]= left[i];	
	î++;	
	K++*	
	7	
	(while (j < n2)	
	while of	
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Page. 2 a[k] right[j]; loid merge-sout (intar[], int l_i, int 9_i if (Lica-i) 2 int moli =(4-i-Li)/2; merge sout (ar, Li, m). nerge sort (ar, m+192 i). neage (ar, li, m, or i), void count (int A[] ant 8) 2 for (int i=0; i<8; i++) prints ("\n"). Void main () 33 int a[20], a size; points ("Entler aevray size"). scanfly, d., &a-sizes; quinty ("Enter array elements"), for lint n=0; n(a size; n++ Scanf 147. d", Larray [n7). mergi-sout (array, 0, a size-1) prints ("In Souted acrowy is"). point (array, a size Scanned with CamScanner

En TO 12 In this technique the average is divided a parts, a souted subjuster and an unscent It finds the smallest element in the une list and exchange it with the lefter unscent delement. Time complicities

a delication of the same	(42	1				Page	
1	20	12	10	15	2	minatinden 1	
	20	12	19	15	2	min at indon 2	
	20	12	10	15	2	min et inden 2	
	20	12	10	15	2	min at inden 4	
o to annother are assistant and a	2	12	10	15	20		
3.5			Swapp	ring	6 G		
4.	11 bubble sout						
	Hinclude < Stdio. h>						
	void main ()						
	2 unt a [20, n, temp=0:						
	2 int a Ero, n, temp = 0. Reint ("Enter size").						
	start in an in						
	for lint czo; (<n; (++)<="" td=""></n;>						
	for lint CZO; (Cn; C++)						
	Scarf ("1.d" Lales).						
	for (int e20; (<n-1; (++)<="" td=""></n-1;>						
	2 for (int d20; d <n-c-1; d+7)<="" td=""></n-c-1;>						
	2 sel temp = a[d];						
	ary och of 1 517.						
	ald]=ald+1];						
	a[d+1] = temp,						
	3						
	3						
4	pount ("Sootled list is: ").						
						Scanned with CamScanner	