15.	1-10-3
15 4 21	ADA-LAB (WRITE-UP)
Ave	1. 34) And A la Mills and Mark 1 - a 18 + L asa 4
	Recursive Linear and Binary Search.
odf !	# include (stdio. h)
*	int Recursive LS (int axx [], int value, int index int n)
	1
	int pos=0:
	i (index)=n)
	seturn 0;
(F # 1	elsa i] (axx[index] == value)
	{ (wor [maex] = = varie)
(4	pos = index+1;
	xeturn pos;
	1 51 08 69 39 13 1
	else o - ciarge si si la la la
1 -	£
-	return Recursive LS (aux, value, index+1, n).
	Standardting Paine Jackson -
	return pos;
	The or Sing males
	int main ()
	2
	int n, value, pos, m=0, aur [100];
	print ("Enter the total elements in the array:").
- 11	scan/("%d", (n);
	print ("Enter the away elements: \n").
	Jox (int i=0; i(n; i++)
	Scanf ("%d", law [i]);
	1
II	



	print ("Enter the element to search:");
Ş.	scan (" " l-d", & value) ; asia . O doil) domos would
	pos = Recursive LS (ann, value, 0, n);
	if (pos! = 0) & toi [] test [] total blow
	§ 4 1
	print ("flement found at posited (n") posi);
	else
	£ (++; . 25; > ; .0=j) 5:0
	print ("Element not lound in"):
	print ("Element not found In"); ([i] fail ([i] fail) 1
	return 0;
	temp = List[i].
	[ist[i] = list[i];
	Good - Cil deil
	# include (stdio.h)
	void binary search (int[] int, int, int);
	void bubble sort (int[], int);
r	int main ()
4	veid binary search (fat list[] light lo, inthi, intil
-	int key, size, i;
	int list [25]; -bim ini
	print ("Enter size of a list:"); (id(a)); Scant ("%d", & Size);
	Scan ("%d", & Size);
	print (Entex elements In); on USN) House
	print ("Entex elements n.1); on pgN") 1000g ox (i=0; i (size; i++) : newdex
	Scanf("%d", Plist [i]); - [lideal) = bin
	i (list [mid] == 8ey)
	bubble-soxt (list, Size);
	print ("In"); ("In"); print ("Enter key to search)n");
	wint ("Fater key to search)").

```
scan ("%d" & key);
binary-search (list, O, size, key);
        i ( list [i] ) List [j])
           temp = list[i];
    int mid:
   printy ("Key found In").
```



	else if (list [mid] > key) (d. oilste) shubrit
14	1 (a dai m tail bop tai
	binary-search (list, lo, mid-1, key);
	3 : 7 103
	else if (list[mid] (key)
	2
	binary-search (list, mid+1, hi, key);
	3 4
	3 : 7 = 0
	: (0=10) alida (
2	Recursive GCD and Stexative GCD
	ξ
	# include (stallo.h) () isom this
3) [6]	int ged (int m, intn)
1.1	ich martes:
No. 1	if (n==0) returning manner (0==1) [i
	1) (m(n) return gcd (n,m)
	return ged (n, moon); (n m) beg = 335
Rear or	punt ("The Geen of 4d and 1/1 is 2d for"
	int main ()
A	3
	int m, n, res;
	printy ("Entex m and n \n").
	scanf ("7.d.7.d", lm, ln);
11	res = gcd (m,n);
1/1	print ("GCD of %d and %d is %d. In", m, n, res);
	Paris de la constantina della
N.	
AT .	
1	

	# include (statio. h) (pod (bim] szil) li sels
	int gcd (int m, int n)
	binary seaset (list le mid-1 key):
	int r;
	else Il (List [mid] (key) ob
	2
	7=m%n; id (1:5+ odot) him = 7
	m = n;
	n= Υ;
	3 while (n =0);
	a) Recursive Gell and Atexative, me hours
	3
	int main () (d. ollete) abautoni #
	int ged (int m, int n)
	int m, n, res;
	print ("Enter m and n1n"); or (0==n) 1
	Scanf ("1.d", 2m, 2n)
	res= gcd (m,n): (norm a) hap rouse
	print ("The GCD of it and it d is itd. In", m, n, res
	(when the add)
	1
	Lat m n res:
	site of the tere on and of In').
	printed " 2 2 20):
	in the state of th
(25	on the second is the second in the second
	Traing .
	2 Land of Paul Control of Paul
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