•	PAGE No.
	DS-LAB PROGRAM-2 DATE //
B	Collowing operations single Cinterist with the
	following operations
	a) So I the Wheelist
	b) Reverse the linkond 1 ist
	c) concatenation of two linked 1.'st.s
LOOP	#inelude Cstdio.h>
	#indude cotalib.h)
	Shurt node
	2
	int into;
* 1	Struct vo de * 1, ink;
-	
9	typedet. shut node # NONE;
4	NODE getnodels
	9
1	NODE - 21;
	X=(NDDE) malloc (sireof (shut nade));
	if (x==NUL)
	printt ("nem tuer"))
-	exit(o);
10	3
	fefurn x:
	3
	wid freenade (NODE.50)
	E contract the contract of the
	free (x);
	2
	NODE insert from (NODE (int, int ikm)
	S

	DATE
	NODE tempi
-	temp=getnodel);
	temposinto =1 tem;
	Ferry-slink = NUZL;
_	if (Fint = = NULL)
	(
	ieturn temp;
	3
·	temp -> link = fint;
·	first zlemp;
	return first;
	3
	MODE delete-Ront (NOOT fins)
1	
	NODE temp;
-3	if (fint ==NUL)
_~	9
	printf ("list is erypty cannot delete (n'))
	return finst;
-	temp=first;
	tenge for of 11 ne;
1 100 M	temp=temp-slink; print(alten deleted at fout end is = 0/60/n") free CC 1:
	free Chint);
<u></u>	return femp;
	A second
	RODE insert-rear Chapt First, int items
	NODE temp, vur;
	tempedaci:
	temp -> info =ifem;

	DATE / /	
	Jemp-slink=NUL)	
	; F(fint = = NULL)	
	jetur tenp;	
	av=frst;	
	while (aur - 11 inte = NULL)	
	ur = ur ->?ink;	
	in - sinte = temp;	
	(Leturn fist;	
	7	
- 1	NODE delete iver (MODE Finty	
<u></u>	E (John Committee)	
	NODE var, prev;	_
	it CFirst == NULLY	-
	<u>{</u>	
	printfl" List is emply came tolete"	_
	return fint;	
	7	
	if (Aut - high= NU.CL)	_
	5	
	printf ("1sem deleted godb", first-into);	
	free (first);	
	return NULY	
	3	The state of the s
	per= NULL;	CTECH WATER
		The second second
	while (un -iline! = NULL)	
	2	
	prer zury	
	city = cum - 9 link;	
	2	

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		1
	print+1° Herr deleted is at ver end is	01
	pint + 19 Hem deleted is an in	- Ody
	Witte.	7/26)
	Leelw?	
	per - link = NUL;	
	return Cist;	
	NODE order list (int iken, NODE fint)	
	MODE Order (15)	
	2	
	NONE temp, previous	
	temp=getnode();	
	temp -into zitem	
	Jenp- 1 line= NVIL;	$\Delta = 1$
	if (finf==NVIL)	STATE
<u> </u>	jetum tempi	
	if (item < cust - sinto)	3
~	4	
	temp -> link = fint;	
	return temp;	
	3	
7-	prev= wvij	
	Ev=first)	
	white lan's North items our winto	1
	5	
	prer-cur;	
	· ur = cur: > link;	
	7	
	prev =>link=temp;	
	temp - link zum	
	return firt;	
	3	
Hur		

	PAGE No. DATE
\exists	wid wisplay (none first)
	1. NODE Lemp;
	if-Ctint==NULL)
	else entry cannot display items ?)
	printf (a. Contenty of the list: n")
	for chemp-first; temp = NULL; temp-komp-stirley
\parallel	
	prohtf(" dod (n" temp-into)
2	<u> </u>
	NODE WINCOU- LINOPE Fist, NODE (EWA)
	and the state of t
#	NODE ar;
	if (full == NULL)
\parallel	return secondi
-	it (second == NULL)
-	Leturn filst;
#	an-first;
\dagger	while Cur-slink, Nous
\parallel	cur=cur-stink;
\parallel	Cim 1 indo = ceeord
4	etum first;
-	2 pum on,
	NODE revere (NODE - First)
1	S Evere (Mar)
	MODE colo, femp;
	Cur = NVII;
	while (first! = NULL)
	S (F) Y'11 1-0-0

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	Jemp=Fint:	
	fint = fit -) (inte	
	somp-11'nb zur;	
	cur = temp;	
	- I have the state of the state	
	jehn aus	
	7	
	wid maines	and the second
	ξ	
	int item, choice, key, n, i,	
	MODE fist=NULL, a,b;	Constitution
	for (;')	
	{	
1=	printf ("In1: Incert-Ront in 2: Pel	olo for-11-
	Injet-rear in 4: Delete-rearing;	CACTION VIS
	printflux ordon licht	A A STATE
	Concert In 8: Reverse In 9: Exit In	y-43L(n)
	printf ("Enter you horo").	
	Scart [1000 1, Echoice)	
	Suith (Usice)	
	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ease 1: non +f (11)= 10 11	6
	1 Sold ill make	han en")
	2000 1 1000 11 1100	
	first = inget = Front (Gingt, in break;	
	case 2: first = delete front (first)	
	a som	
	case 3: printfl'Enter Handle	11 -11);
	TIME = meer search in in	
	prede;)
		a Cara Cara
	Scanned with	h CamScanner

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	case 4: first = delete rear (First);
	beale;
	case si printfu inter item to be inserted in order
	1.81").
	scarf ("Ygod", liken);
	first = orden 1ist (item, fist)
	break;
	case 6: display (Fint);
	break;
	cace 7: printf 1" Enter Hensotnows, 52"21
	Sear f ("1 olod", fiten);
	at insent rear (a, 1/em);
-	3 a=NULLi
	· for cint (=0; icn; it)
	2 12 15 10 10 10 10 11 11 11 11 11 11 11 11 11
	printf("Date the item");
	a sinsert - rear (a, item);
	7
	printf l'Enter the no. of nodes in 2'n")
	geant ("Plad", An);
	P=NULV,
	for Cicoiin; i++)
	9
	printfruguler the item In"/s
	searl (10/0d", fiten),
	b= insert rear (b; item).
	?
	a = concat (a,b)i
	display(a);
	break,

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		DATE
!	con di Contonerse (first);	
	cace 8: first = reverse (first); ctisplay (first); break;	
	Cospage . S	and the state of t
	b-eac;	
	case 9: exit(0);	
	bre ali	
	default: printflumalid	1 hoice 10"11
Par .		Out to 11
	}	
	3 7	
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
···		
— <u>144</u>	The second secon	
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	A second	
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		<u> </u>
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15.0		
		O I DO NOT THE REAL PROPERTY.
-		The state of the s
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