to At to implement doobly liked list operations: a) (seation 1) insestion of node to legit of noclo c) Deles node based on specific value d) hisplay contents to the - (foos) sike true # include < stdio.hs # include < process hs struct node (took) when struct node * llik) + struct rode * serk. typodel struct mode + NODE. NODE getnode () NODE Y. il (1= mall) if (I=NULL) cuit(o); mem foll (11). NODE dinsert front (intitem, MODF hand) NODE temp cos; temp -> info = item; cut = head -> slink; head -> slink = Jamp; temp -> lik = head; Camlin Page

temp -> elink = cut; (sound gasen sweet all) 3000 (uh -> flink = temp; Return head;

NOOE dinsert a pas (Not i tem, NODE head) NODE temp, cus; Jenp = gotnodors; temp->info = item. - hard = du Cus = head -> llisk. head - plak 2 semp Jenp -> slink = head, Jemp -> leink = cus; cut -> esliste - temp: seturn head; had made NOOF adelete front (NOOF head) NODE cut, next; and good 3000 il [head -> & link = = head) setuen head. cus s head - > seliste; nent = cus -> s link; head slink a next. next > link = head; Pf (" wode deleted f. d", cusp->iga). ge fren head; page of Cultillets Camlin Page

NODE due know no DE head miller shiple & 1/2-> 1214 = 4mp1 NODE CUSPEREN. I hard made if chead-> & slink= head (1st item, nos Printy ("Empty list 104), setunhead: 3113 19 may 3000 temp = approduces. cus = head -> llike prev = cus -> Clink; - band = dis head-) llink - preve, prev- slik = head; pring (4 Node déleted y d4, cus sinfo); Dee (russ) setus head. book made NODE insatlest pos (int fem , NODE head) if thead -> silink == hands while Cans 1 = head) i's (item == cus->ilyo)
breaks;
cus = cus-> selink; if (cure = head) 2 of (" key not found in"). prev = curllink; Samlin Page

All the test towards ley of 1-d 201 stems - see sand (n-1-d", & temp-) ingos = side and prev -> rlik= temp' de soul ander cus -> llik = temp; Jempo selika cus; just the state in the setur nead NODE inesterightpose intitum, NODE heads NOPE temps cus, preve. if (head-) slink ==head) Pf(" Empty list 11").

setus head, stand cus = head -> llink while (us ! = head) if (item == cus -) info) cus=cus-> Blink; if (cus == head) refuse hera; pres= cus-> slink; of ("Index forwards Aight of T.d=", inn).

Scanf ("Y.d", Klemp-> info). Camlin Page

prev-slik 2 tenpy will also and delight demp-> slink = psev. temp -> llink = cus; return head; NO DE delete all key (int item, NODE head) NODE ples, cus, next, int routing with the sent their soon this if (head -) slik== head) of (" Empty listin"); setun head; count=0: cus = head -> slink, while (cust = head) while inapie head if (ixem 1 = cus-)ixo) CUS = CUS -> slink; CUB-CUB- Mink. ? 140 2 cus -> Blisk; next = cus -> & link. pred -> slink 2 next. next -> elist = prev. free Cours; ous = next, " = b. t is tapis showed while 3 wood top - only if (count = 70) Samin Page

else (" Rey not found in") all of the 200 though setusa head. good dis play (NODE head) NODE Lemps of Ph. +12) moss if chead > slink = 2 head) of Eucist is empty will seturn ; Stanf (4-9- KH billin). E hood of the link: In"). temp = head -> relist. while (temp 1 = h ead) Pf (47.d4, temp-> info); temp - temp-) slink; nes: of ("Enter hey were: ") bring (a (n"). word market wo DE head last; int item, chi head = getnode (); head-> sunk = head head -> Plink- head; (os(ii) print ("min 1. ins front in 2. ins seas in
3. Delete joint in 4. Delete seas

In 5. Jusest left pos in 6. insest Camlin Page

right pos In 7. Delete all key elements in 8. Display	
In 9. Exit (14),	
Con Scar Curds, both Jin a bood was a sing	
Switch (ch)	The same of the sa
541041(5)	
case 1: planty ("Enter item to be inserted	0
pert-end; 43;	~
scarp (41. d4, bitems, 3000)	
last = disest front (i fem, heads	9
bseak:	
Case ?: print (" Enter item to insert @s	600
end : "Diget	-49
S cary (4-9. d4, b iten).	
last : dissert sees (item, head)	C.C.
May - head - waste	
Case 3: last- adolest fort Chead.	
brech:	
Case 4: Lost: ddlete sen (head).	
bseak;	St
Coses: of ("Entos key Hem: 11)	
Scary (4 /d4, wiren)	
head = insest leftpos (, tem, 2 pad);	
weak!	
(ose 600 pf (" Endes key Hen: 1°);	04
Scorf (114-d4, b 14en)	
head = insest signed pos (item,	(cad);
hand = A break book	
(ase 7 : of (" Entokey : ");	
scent (41. d4 & item),	
head: detete all bey (ven)	end
of work with the sheaks	1
(ase 8: display (head).	
appeal to lay the second to break	
0366 1 1	
Comlin Page	

3 défault : exertion.	
elegante (1017(0))	
3	30
3	
	SZ ()
	SO
	SI
	Ot.
	C
	S