Operations on singly liked list Sort, Reverse, Concert. # include < steliah) # include < como.hs ("200 10hg") # include < process h stroct node E j'et injo;

struct node * link. NODE getnodol) NODE T'

T= (WODE) malloc (sizeof (struct node)); if (X==NOLL) phint (7 memory full[11]).

(xit (0): return Ti NODE insertpent (NODE first, int item) NODE Jemp Jemp= getnode(); semp-> info = isem; temp-slipe - NULL; if (filst= NULL) sefern Lemp. Camlin Page

Jemp -> link = finst.

first = demg!

seturn finot. NODE deletesson (NODE fisst) NODE TEMP; If (girst= = woll) Pf Cu Emp dy list. Can't delete in "",
Setuan filssa; tempe fixst; perint (" Hern deleted a front - I d in " filest singo). Jsee (first); setun tenp! NODE IF CROOF second, intifem NODE temp semp getnoder; temps i'nfo - i'tem; temp -> link- NULL; if (second == NOLL) setus temp; HERR? Pink = secondi second = temp; sefun second; IR (NODE second, i'd item) Camlin Page

NODE temp, GUN, Jenp= getrode (); demps into = idem; temp & lik = NOLL; se deletation (no ne fixed) if (second = NULL) Luh= second. while (cus > link | = NOLL) CUA == 105 -> low. return second; NODE SOURCE (NODE first' NOOR COB, femp, while (first 1 = NOLL) first = first > link temp-> link- (uh; (un => den p; garde 3 wrot ascending (NODE first) NODE prese = first.

NODE cur = NUCL.

int Sewy; if fint = nuce Comin Page

Pla while (Bev = NOLO (US = prev -) lisk; while (us 1= NOW) 1) (prev -> 1/0 > cus >1/6) preo -> info = con -> info. cus -> info = denp LUKE CUK -> Rinks PRED = PRED -> link, 3 setus first descending (NODE first) NODE prev= first NODE (US= NOCC;

if (first= NOCC) while (proo / = nuc) con- prev-> lik; while Curl= wull)

if (pseo -> info < cos-> info) temp = psev -> Typo; preve - sinfo = con-sinfo. cor-sinfo = femp cur = cur -> link; redun first NODE concatenate (NODE first, NODE second) if (first==NOLL) seturn second:

if (Second== NOLL) seturn first:

while (LUK-> link;=NULL)

while (LUK-> link;=NULL) (uh = (un -> link; seturn first; void display (NODE first) if (first == NUCC)

Sprint (" Emply list (")")

Print ("List content: ") for (tempe first; temp! = vock; temp= temp-> land) print(Qu In -1-d4, semp -); fo); void mah () Int item, choice, pos, clement, option, choice 2, items, num, NODE Secondo Nous. print ("In In @1. insestport in 2. delete front in 6. Disp -lay (17. Exit 15"); Scarf 11-1-14, & chares; cox 1: of (" Ento Her a front end:"); scaf ("1-1 d", x", tem); of (" + d wased a grant of int Case 2: first - deletefont gurol case 3: first= severs (first);

philip ("List is severed"); Capit: phill (".). Assending N2. Camin Page

Scarf Cuid , boption). if (option == 1) of (" List scoted in ascending In"). if (option = = 2) first = descending (first) cose 5: Pl (" Create 2nd listing). PI (" Enter 10 of de in and list ; u), scarf ("-1-d" & 10m). 105 (i=1 = 1'= num; 1'+15 if Choice 2 Prints (" Enter Hem @ Jeant: "). become & doice) 5 canf (41. d", & Henry seronde IFC second, items des if (choice 2 = = 2). of EU Enter item @ seas: 1). Scarf (4-1-d4 , & iten 1), Scord=IR(second, item 1) first = concatenate (first, second). concakaokol 1 " "). Case b: display (first); default : Brit (0) Camlin Page