Date / / Unkell hiet #Inchide Labolio. h) Hinchde & conio.h) Struct node { int into; struct neede & link, 3; typedef struct nade * NODE; NODE gethode (){ NODE 200 De=(NODE) mallac (Size of (struct node)) 1/ (x== NULL){ prints (" non full (") exit(o); 3 return); } void fromode (NOSE X) { free (x); } DODE insert-front (NODE first, intitend ? NODE tomp; temp = getnoold); temp -> info = item; temp > link = NVLL; if (first == buil) return Femp; temp - 1 hint = first; first = temp; return first; ? NODE dolete- pront (NODE piret) (NODE temp if (first == NULL) { print! (" Empty mi); return first; temp=first; temp=temp-1 link; prints ("déteted ild m", first-riyo); pré (fire b); retwen tenf) NODE jourt-rear (NODE first, int i tem) { NODE temp, cur; temp = getwoodd); temp -> info = i tem; ten-> linkallis if (first = = NULL) { return tamp; 3 cwr = firet' while (cur -> link! = NULL) Cur = (ur-) link; Cur -> link = temp; return first; }

NONE delete - Kar (Nobi first) ? NODE CWI, PAPEN; If (first = NOLL) { grints (" pupty in"); retween first;] of (first -> hints == NOLL) { Prints (" deleted " d m", first - rimgol; free (first); return NULL; 3 prev= NULL; cur = firet; while (cor > Wink! = NOLL) { Previo cwe; (we = cwe-> winh;) prints ("deleted "1. d", cur-riyas; free (wr); prev-Hint = NULL; return first;] NODE order list (int item, NODE just) { NODE temp, prev, cur; temp = getnode(); temp -) info = i tem; Acrep -> Link = NULL; if (first = = NULL) return temp; 1/ Citem Spirst -rinfos? temp -> wink = jinst; return temp; ? Dren = NOULL; CMZ = firet; while (curl = NULL +4 i tem > cur -> infos { prev = cur; cur = cur -> link; 3 prev + link = temp; temp -> link = cur; return first; ? Void display (MODE firet) { NODE temp; If (first==NULL) prints(" empty"); for (temp = first; temp! = NULL); temp = temp > hinhs & prints (".1.d m"D, tenp > iyo); 33 void main() { Intitem, choice, by; NODE first = NULL; for (;) { print (" 1. Sneart M 2. Del M 3. order in 4. Disply in 5 Aid" & cant ("Id", & charce); switch (chaice) { Case 1: prints (" Enter i tem "); scan(" 1-d", & i tem); firet = insert front (firet, item). break;

Case 2; first = delete front (first), break; Case 3' prints(" Enter item, "); scanf ("'I.d", fifen); first = order list (; fem, first); break; Case 4: display (firef); break; default! esu'f(o); break; \$3 getch(); } To concat & poverse NODE concat (NODE jirst, NODE second) ? Hindude testation NODE lwz;

Brinchde teantoch if (first == NULL) return second;

struct node if (second == NULL) return first; cur = first; vohibe (cur -> link! = DULL) cur = cur -> link; cur > link = second; return first; ? NODE reverse (NOPE firet)? NODE cur, temp', cur = temp', (ur = NULL) while (first!= NULL) { temp= first; first = firet > link; temp > link = curi 5 retween (wij)