Double Ended gene: # Include L stong. hs # include (conio.h) # include < process. n> # define qui je = 5 16f=0, r=-1, ck' intitem, y [10] int full (18 return (r== q size-1371:0; 3 int empty (the) { retwen (5) 5) ?!!! 0; 3 void insert near (){ if Cfull (10)) { Prints (1 9 aneylow 11) return; } x=141; g [7] = item; 3 void delete frat() (if (empty () 12 prives ("enty"): pronto ("deleted); 1.d; p["(+)++]); retween! 1 (t) (t) 1/(3) 2) 5 f = 0; 3-0, D= -1 } } . 0=-1) []

Nord delett - Karl) { if (emptyp()) {
Print f ("t impty"). void hurr- grout () { 1 (3!=0) { f=f-1) seturn 5 3 Printf ("taleted 1.d", y [ir) alt] : item; if (+>+){ return; } else if ((f= =0) 44(r=2-1)){ チ=0; 下=-1; 33 q [++(r)] = idemj return; 3 Prints ("Insertion not possible"); } void display 1) & void delek- rear () { ant ij if (empty 1) E if (emply ()) h Printer (Empty ") Prints ("Empty"); return 13 seturn, ?. for (i=1; 11=1; t+1) for (i=f; iL=r; off) prints (" I.d in", of i) Points ("Id") 98 vaid main () & chall! for (;;) { printf(" 1. ins_r In 2. ins_f Ins. del _r ma. del _f Ins. dis print 018 can f (" '1.d", & ch) Switch (ch) { Casel: Printf(" Enter item"); 2 canf ("1.d", & iden); insert-rear()" break ease 2 : Prints(" Enter iten"): scant (Tide, fitem); insort-front(); break, costs: dolete rear(); break; Care h: delete - front (5, break) Ease 5', display(), break! Exterior! exite; 33 Page N astal 111

Thurs quell # include & stolia. h) # dofine max 5 int que e e max] 0; int front = -1, rear = -1; void insert (); int delete (); void display (); int main () ? Printf(" p.l. snevitin 2. Dolote in 3 Display Interestin"); 8 cant ("I.d" 4 m); int aption, wal; 8 cant ("I.d", 4 op); &witch COP) { Case 1: Insert (); break; (ose 2! boreate delete (); break, Tase 3: display (); break; } default : est to bible (op! = 5). retwin 0; voidsort insert () { int num; Prints ("Enter no to be added in"); scant (" Id", frum) 1) (front = = 0 +4 rear = MAX - 1) 0. Prints ("Overflow M"); else if (front == -1 \$4 ocar == -1){ fromt = 0; rear = 0; queue [rear] = num 1 else if (rear = MAX - 144 front! = 0){ rear = 0; queue [rear] = hum; ? rear ++; queue [rear] = num; 33

int dolete () { int val; if (front == -1 84 mar == -1) { Printf(" underglow"); return -1; ? Val = queue [front] i's (front = = reard & front = -1; rear = -1; 3 1 (front = mase 1) front + + 3 neturn val; 3 void display 1) { inti; Brints ("Th"); if (front = = -1 \$4 news = = -1) Prints ("Empty In"): If (front & rears { for (i = front; it hose; it t) prints ("1 d", queue [i]) 3 else ? for (i= front; êLMAx; itt) Printf ("i'd", que ve [i]); for (i= go; it rear; it) prints (" i.d " queue [i]):