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OCLAB-11
Hanclude (stoleh).
struct node ?
 1 at tato;
 struct node * 19nk;
 typedel struct node * NODE;
NOOE getnode () {
   NODE X;
   x = (NOOF) malloc Correof (struct node);
   OF (X == NULL) {
   pf ("mem hull");
    ext (0);
  rehim o;
 NODE Concat (NODE Aust, NODE second) {
   NOOF WY;
    retion second;
  It ( second = 2 NULL)
     return fort;
   curz first;
```

Name of the Experiment Date Experiment No. Page No.: whole (us -> 19nk != NULL) cur = cur - lank; cur - 191k = second; return list: NODE YEVERE ( NOOF BANK) & NOOF wy temp; CUT = NULL; whole ( FIxt! = NULL) & temp = Egyst; Pant = Pant -> lank temp → 19nk = cur; cur = temp; 3 return cur; NODE SOXT (NOOF PART) ( Int shapped; NODE pts1, lptx = NULL; OF ( Bat = = NULL) return NVLL; do 1 swapped = 6; ptx1 = lant; while (ptx1 → thro > ptx1 -> bnk - thro ) {

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Name of the Experiment:
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 If (prol-salo) ptol-slank - lank) (
       1nt $tem = ptx 1 - 906;
       ptol-> mho = ptol - link - 9nh;
    ptal-Int - lak = tem;
        Swapped =1;
     ptx1 = ptx1 - lank;
     3 lptx = px+1;
     I whole (swapped);
   return Arst;
  NODE delete read ( NODE PART) {
     NODE CUT, prev;
    IF ( Part = = NULL) L
     pf (" emply");
      return Pant; 3
    9+ (Bast - lank == NULL) (
       pt (" deleted 1.d", Bint - 9nho).
       free Clant);
       retion NULL;
      3 prev = NULL;
      W8 = lant;
     whole (ur - lank != NULL) {
        prev = cur;
        cut = cut - lank : 3
```

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pr Ludreted 1. dy (U8 - 2 Mb); Free (cur); prev-19nk = NULL; return Gist: 3 NODE delete front (NODE GHT) ( NODE temp; of Chut == NULLOd pt (" emply"); setim Gyt: 3 temp = lant; temp = temp -s lank; pf (" deleted 1. d", Aut - 9 n b); Pree (But); return temp NOOE ENEST front (NOOF Firt, Int I tem) ( NODE temp; temp = getnode (): temp - Inh = 9tem; temp - look > NULL; OFC BAY = = NULLO return temp; temp-lank = Bint; Part = temp; return last; 3

Sulekha King Size

Signature..

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vad man() { Int oten, choice, pos, 9, 1; NOOE PANT = NULL, a.b. Por (;;) { of ("I concat 2 reverse 3 sort 4 stack Squeue In"); pt ("enter choque"); scant (" 1.d. l chorces. SW9 kh (chorce) f casel: pl ("enter no of nodes en 1"); scarf (" 1.d" la); a = NULL; for (9=0; 9<1; 9++)1 pfc "exter 9+em"; sf("1.d" (9tem). a = Irest = front (a, 9 tem): 3 pt ( verter no of nodes in 2 "). st ("/d" (n); b = NULL; Por 19=0; 9(1; 9++) { pf ( " enter & tem"); Sf ( - 1. d", (9 tem); b = I west front ( b + tem ); } a = 5 concat (a, b); desplay(a); break;

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case 2: Ant = revene (Ant); break; case 7: Pant = sort (But); break; caret: Por C: 1 { pf("1: Insert 2: delete 3: display "); scent [ " td", (choice); Switch Cchoices ( care 1: sf (" 1.d", 69 tem); But 2 Merk front ( Gut, 9 tim; break; case 2: lant = delete front (But); break; care 7: duplay (hnt); break; default: exallor; 73 cares: for(:) { pt("1: Insert 2: delete 7: desplay"); Sf(" 1.d" lehorces; switch (choque ) ( casel: st (u.j.d", & ytem); But = Insert front (But, 9 tom); break; case 2: Ant = dolete rear (Ant); break; care J: diplay ( Brit); break; default: exit (0);

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