Scanned with CamScanner

```
3
   temp = first ;
    temp = temp -> link;
   Printf ("Hern deleted at front end is I'd (n", first ->info).
      free (first):
     actum temp;
     NODE insert-seal (NODE Airst, int item) &
      NODE temp, and;
       temp - get node ();
      temp-sinho = item;
      temp -> link = Nou;
      of (that == NUCL)
         setum terp;
         cua = first :
    while ( cue -> link! = NULL)
       oul = cue -> link;
       cue -> link = temp ",
       setum first;
     NODE delete real (NODE first) {
       NODE cue, pren;
         if (first == NULL) &
  printf (" list is empty cannot delete In");
       selven first;
     if (first -> link == NULL) &
    Printf ("Item deleted is led In", first - info);
      free (first);
        sehm NULL;
           Prev = NULL ;
            cus = first;
         whale (an -> link ! = 10ULL) of
             prev = cue;
             cul= cul -> link;
```

```
print (" Hem deleted at real end is fod", cue - sonfo);
  free (cue);
prev-stink = NULL;
  actom first s
  NODE insect-pos(int item, int pos, NODE first);
   NODE temp, ell, prev;
     int count;
   temp getnode ();
  temp-> into = item;
  temp - 180K = MULL;
  of (first == NULL && pos == 1) }
     actum temp;
    if (first == NOU) of
 Printf (" invalid position in");
     suturn first;
    of (pos = = 1) }
    temp-slink = first;
      fint =temp;
      setum temp;
      count = 1;
      prev = NOLL;
      cue = first;
  while ( cue; = NULL && count; = pos) }
          prev = cul;
          cue = cue - link;
          count ++;
    of (count = = pos) {
       prev-> link = temp;
       temp -> link = cue;
        autom first;
    "I printf ("Invalid position In");
         setum (first);
```

```
NODE delete-pos ( ent pos, NODE ferst) }
  NODE cue;
  NODE Preu;
 ant count, flay = 0;
if (first == NULL 11 pos =0) }
  printf ("Invaled postion In");
    setum NULL;
   3 (1 = = 20q) Fr
     cue = First ,
     first = Arst -> link;
     freenode (cue);
     actum first;
      Prev = NULL;
     cue = ferst;
       count = 1;
     whale ( cue! = NOUL) of
      if ( count = = pos) {
       flag=1;
        break;
       count ++;
        prev = cul;
       cue = cue -> lent;
       if (flay = = 0) {
      printf ("Invalid position | n");
       actum first
      printf l' Hon deleted at given position is - (-d In", cus sinto);
        prev-slink = cul -slink;
          freenode (we);
          setum first;
         word display (NODE tinst) &
            NODE top;
          of (Anst = = Nou)
```

```
Printf ("List empty cannot display items (");
   for (temp = ferst; temp! = NULL; temp = temp = link) of
      Printf (".l.d In", temp - into);
4
   word main ()
     int item, choice, key, pos;
                                  out to display (4-11);
      "int count = 0;
      NODE forst = NULL;
  for (;;) of
printf ("In1: Insect real In2: Delete real In 3: Insect front In
        5: Insect into position In 4: Delete front In 6: Delete into
      position In 7: Display list In 8: Exit (n");
 printf (" Enter the choice: ");
  scarf (" · I · d", & choice);
  switch (choice) }
 case! : printf ("Enter the stem at real end \n");
     scarf (".l.d", &item);
     first = insect-real (first, item);
         break;
case 2: first = delete-real (first);
         break;
Case 3: printf (" In Entre the item at front end [n");
         scart (0.1. do, & Eten);
        first = insect-front (first, item);
          break;
Case 4: first = delete-front (first);
            breat ;
 case 5: printf ("Enter the item to be insected at given
                 position | ");
            Scart ( uolod 4, &item);
           partf (" enter the position /" ");
             scont (uolod", 4 pos);
```

```
first = insect - pos (item, pos, first);
          break;
Case 6: printf ("Enter the position In");
           sconf (". 1.d ", & pos);
                                             ( ) ning him
          first = delete pos (pos, first);
             break;
                           from post estado mest to:
   Case 7: display (first);
          break;
      detault : exit(0);
          break;
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                         the the tank stable - least & if
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