

```
first = temp;
  NODE delete front (NODE first) {
  NODE temp
      (first == NULL)
 sintf ("List is empty cannot delete
  return first;
 tems = first
 temp = temp -> link;
wintf (" Item deleted at front end is
 Kel (fixs+);
return temp
NODE insent_rear (NODE first, int item)
NODE temp, cum
temp = getnode
temp - Vinfo = item
temp > link = NULL
 if / first = = NULL
 netwin temp
 while (my > link! = NULL
 mm = mm -> link;
 cum -> link = temp;
return first;
 NODE delete-ream (NODE first) 9
 NODE cum, prev;
 ittiss == HULL)
           ist is empty
```

```
return first;
if (first -> link = = NULL) {
printf ("Item deleted is / d \n", first -> info);
 free (first);
return NULL;
while (un -> link! = NULL) 9
  cm = cm -> link;
 printf ("Item deleted at rear end is 1-d", cum > info)
  ree (m);
 prev -> link = NULL;
NODE insent_pos(int item, int pres, NODE fixst) {
       temp, cm, prev;
 int went;
temp = getnode();
temp -> info = item;
 temp -> link = NULL;
   (fixst = = NULL & pos == 1) 9
 xeturn temp;
      first = = NULL) q
    If ("Invalid position | n");
      pro==1) 9
```

```
temp -> link = fixst;
  count = 1°
   prew = NULL.
 while ( cm! = NULL hh count! = pres) 9
     cum = cum -> link;
  count ++;
 count = = pros) 9
  temp > link = cur;
          "Invalid position "
  beturn first.
 NODE delete-pos (int pos, NODE first
NODE
 NODE prev
 int count, flag=0
  if [first == NOLL ] posco) {
print f ["Invalid position | n")
  return NULL;
     first = first > link;
```

```
freemode(um);
return first
          (" Iwalid position \n");
           link = cum > link:
   fremode (cur);
        display (NODE first) {
      itf ("List empty cannot display items | "");
temp=fixst; temp! = NULL; temp=temp->link,
ntf ("1.d\n", temp->info);
```

void main()
in whater
int item, choices, key, pres;
int count = 0;
NODE first = NULL;
fox (; ,) g
print f ("In 1: Insent ream n 2: Delete ream n 3: Insent from
101011111111111111111111111111111111111
into sosition \ N7: Display hat \ N8: EXIT M)
mintf ("Enter the choice: ");
scanf ("d.d, & choice);
Stratel Inlines (
case 1: printf ("Enter the item at rear end (n");
scanf ("1.d", & item);
first = insent - rear (first, item);
meale:
cose 2: first = delete-rear (first);
break;
ease 3: prints ("benter the item at front end)");
Scanf ("/d", hitem);
first = insert - front / first, item.)
break?
case 4: first = delete-front (first);
break;
cases: printf / Guten the item to be insented at
given position \n'1);
seant ("1.d", & item);
printf ("Guten the position \n'1);
first = insert pos (item, pos, first);
break;
case 6: printf ("futer the position \n");
Scanned with CamScanner

void main()
g .
int item, charces, key, pres;
int columnt = 0"
NODE first = NULL;
for (; ',) & I was Delete ream In 3: Insent front
print f (" n 1: Insent ream n 2: Delete ream n 3: Insent front print f (" n 1: Insent ream n 2: Delete ream n 6: Delete
mint f ("In 1: Insent ream n 2, but on n 6: Delete ny: Delete front n5: Insent info pusition n 6: Delete
into position n7: Display list n8: Exit n"); mint ["Futer the choice:");
mint ("tuter the choice.")
scant (7, a, & choice)
switch (choice) { case 1: printf ("Enter the item at rear end (n");
case 1; print f the mon the mon are
scanf ("1.d", hitem); first = Insent - rear (first, item);
first = 1 went - 8 care (1857, 11 000)
break;
case 2: first = delete_rear (first);
break;
ease 3: mintf ("neuter the item at front end)"; Scanf ("/d", hitem); first = insert-front / first, item);
- Scant () d hitem
first = 1 wort - front (first, 17 cm.)
break?
case 4: first = delete-front (first);
break;
cases: perint ("Enter the item to be insented at
given position \n").
seart (" d", & item);
printf ("Guter the position \n");
Scanf (" - d", h pres);
first = insert pos (item, pos, first);
break;
case 6: printf ("futer the presition \n");
Majirian (N')

	scanf ("/· d", h pos); first = delete _ pos (pos, first); break; conse 7: display (first); break; default: exit(o); lorreak;
	first = welle - pros (pros , 11.51)
	case 7: display (first);
	break;
	default: exit(0))
vt	2 (orlean)
	7
	3)
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	the the transfer have the
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