```
Program for limbed list
 Struct node &
     int info;
     ist struct node *link;
 typedef struct node * Node;
 Node get Node () 5
                               - January 1911
  Node z;
 2 = (Node) malloc (size of (struct Node));
  if (2 = NULL) { (327) }
    9th ("men full In");
   exit (0);
 re turn x;
haid free node (Node 2) {
   free (x);
                                    130114 - 4 Mars
                             philip so your or going
     your term "b. " town to behind it is the things of the
                                   KTOTH WOOT
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a Maria tengal

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Node insert Front (Node first, init item) {
       Node temp;
     temp = get Node ();
    temp -> info = item;
   temp >> link = NULL;
   if (first = = NULL)
        return temp;
  temp -> link = first;
   first = temp;
  return first;
Node delete Fron (Node first) {
    Node temp;
    if (first == NULL) {
       sprintf (" List is empty") &.
     return first;
   temp = first;
   temp = temp > link
    Pf (" 1 tem deleted at front: xd", first > info);
    free (first);
    return temp;
```

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Nocle insert Rear ( Node First, intitem) }
   Node temp, cur;
    temp = getNode ();
    temp -> info =item;
    temp -> link = NULL;
     if ( first == NULL)
            return temp;
    cur = first;
  while (cur-> link != NULL) 3
        and cur -> link;
         Cur -> link = temp;
   return first;
Node delete Rear (Node first) }
    Node cur, prev;
     if (first == NULL) }
      print ("hist is empty \n");
      return first;
  if (first > link = = NULL) {
    Pf (" y.d " +, first -> info);
      free (first);
   3 return NUCL;
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Prev= NULL;
cur = first;
while ( cur -> link != NULL) {
   Prev = air;
   cur = cur -> link;
Pf("xd", cur-sinfo);
  free (cur);
 Preue -> link = NULL;
 return first;
```

and Royale.

```
NODE delete_front (NODE first) {

NODE temp;

if (first == NULL) {

    pf ("List is empty");

    return first;

temp = first

temp = temp \rightarrow link;

Pf ("Item deleted at frontend is=2.d ln,

first \rightarrow info);

free (first);

return temp;
```

```
Node order_list (int item, Node first) {
  Node temp, prev, cur;
 temp = get Node ();
  temp -> in to = item
 temp -> link = NULL;
 if (first == NULL)
       return temp;
if (Hem < first > in fo) }
    temp -> link = first;
     return temp;
Prev = NULL;
au =first;
while (cur!=NULL & i tem > cur -> info) {
       preue = cur;
      cur = aur - link;
 prev > lik = + emp;
  temp > link = cur;
  return first:
```

```
Usid display (Node first) {
       Node temp;
       if (first == NULL) {
              printy (" Listies empty "n");
             return;
   for (temp=first; temp= NULL; temp=temps;
            prints (" Y.d", temp > bufo);
 prints ("\m");
usid main () {
    int item ; choice, flag =1;
   Node first = NULL;
  while (flag ==1) {
 printf("In! insert Front In 2. insert Real in
         3. Delete Front In 4. Delete Rear In
          5. orderlist n6. Display m7. eaity.
print f ("enter your choice!");
sconf ("/d", & chaice);
```

```
switch (chaice) 5
     case 1: printf ( oFinter the item to be inscited
                    at front : (n);
             Sconf ('v.d', &item);
            first = insert Front (first, item);
   case 2: printf ("Enter the item to be insented
                     at the rear : In);
            sconf ("/d", &item);
           first = insert Rear (first, item);
            break ;
 case 3: first = delete front (first);
            lereak;
          first = delete Rear (first);
          break;
case 5: printf ("Enter element which will be placed
                 in or der");
        Sconf ("/.d", & item);
       first = orderlist (first, item);
       brook;
case 6: desplay; loreak;
case7: esit-(0)
```