```
#include a stallib. h?
 stead node
  l int info;
   struct node * link;
 tyfedet steuet mode *NODE;
 NODE getnode ()
      x = (NODE) malloc (riged (ritruit mode));
         frintf ("memory fully \n");
      freenode (NODE X)
NODE insert-front (NODE first, int item)
    temp=getnode();
  temp-sinfo = item;
temp-slink = NULL;
```

```
if (first == NULL)
return temp;
 temp -> link = first;
first = temp;
return first;
     delete-rear (NODE first)
  NODE as, pres;
   if (fint == NULL)
                       empty commot delete \m');
     return first;
   if (first->link == NULL)
      fruits ("tem deleted is tid m", first-sinfo);
      free (first);
      return NULL,
      frew = NULL'
     cur = first;
     While (cus -> link != NULL)
     leve = cui /s linking
                              near-end is 1.d", we-sife);
              item deleted
    prev-> link= NULL', return first, 4
```

```
void numale (NODE a, NODE b)
  int tump = a-> info;
  a-rinfo = 6-> info;
     b-sinfo = temp;
void bubbledort (NODE first)
    int rooffed,
    NODE few = NULL;
    if (first == NULL)
     faitf (" Empty Linked text \m");
        cue = first;
        while (Eust > link != fres)
           if ( we sinfo > we slink > info)
              map (ur, ur-> link);
           cua = wa -> link;
```

```
int list_ length (NODE first)
      NODE temp;
      int count = 0
      if (first == NULL).
       return o'
      for (temp=first; temp!= NULL; temp=temp> temb)
          Count ++ ;
      return coul'
void rearch (NODE first, tut item)
    NODE temp;
    int pos = 0;
     frints (" list is empty count sweeth items (");
    if (first == NULL)
     for (temp = first; temp! = NULL; temp = temp -> link)
         if (temp -> info == item)
         glantf (" Element found and is in the position
   Jeans (" Clemenent not found in the list (m");
return; }
```

void display (NODE first) NODE temp;

Bit (first == NULL) partf ("fist is until count diplay terms (""); for (temp = first; temp != NULL; temp=temp=link) faitle 1.d m", temp -> info); int main () Et int item, choice, for, i, m, NODE first = NULL, a,b; faith (" \m 1. Inset-front \m 2. Delete-real \m 3. Dot In h. Total items in the text In 5. Search In 6. Diffey m 7. Exet ( m'); feitf l'Enter your choiceit) sanf ("1.d", & choice); switch (choice) Core! part l'Ester the stem of the pour end In") Danf (" /d", & item); first = insert-front (first, item);

case 2: first = delete-reas (first); Cax 3: bubble\_sort (first) faintf ("I tems in sorted order are (in')) · display (first); Core 4: fairty 1. Jotal items in the list is 1-d in, list-lungth (first)); break, Cox 5: paint ["Enter the item that you want to rearch: (m); start (1.d., & item); rearch ( then first, item) care 6: printf (" text: 1 m"); diploy(first); Coser: exit (0); default: print l'enter correct instruction!!!"]; break ; & return o; &