```
# Puclude Stdiooh>
  reof include < staliboh>
  #in lude <stungoh>
  void main(){
  NODE flest = NULL, a, b;
  int item, ch, m,
  tou (00) {
  Perent ("Futer your choice. Yn 1. Enseert fecont
   In 2 furent rear In 3 delete + wont In 4
   delete mean in & display into sout in 7
   Secan sienerse m8 concat),
  Scary ("%d", 2 ch);
  switch (un) of
   case 1: perint ("Enter îtem to be înserted");
           scarfe" % d", l'item);
fiest = insert - fevent I fiest, item);
           bueak;
 case 2: perint ("Friter Hem to be inserted");
           scamp ("% d", & Fern);
finst = insent-snear (finst, Penn);
           bueak;
           first = arlete - front (first);
           beleak;
          finst = delete-near (finst);
case 4.
           display (first);
           break;
```

```
case 6: flust = sout (flust);
         bueak?
case 7: flust = menerse (flust);
        bueak .
case 8: pullet ("Cutter 1st steeling");
         Pullet ("Enter no. of nodes Pu 1st striling");
        scan ("%d", 2 n);
        fou (1=0 9 < n ; ++) f
        Pullet [" Guten the Stem");
        scary ("7. d", 2 Hem);
       a = insent_mean(a, item) ? }
     puint (" Enter no. of nodes in 2nd steering"),
      scarf (" % d ", & n);
      dou li= 0 : icn : i++) of
      puint (" Enter "Hem");
       Scary [ "% d", 2 item);
       b = Ensert - Mean (b, Etern);
      a = concat(a,b);
       display (a);
       bereak.
    337
```

```
Struct rode of
 Ent Henr;
sterret mode * link?
typedel stemet mode * NODE;
NODE getalode () }
 NODE X.
 = (NODE) malloc (size of (stemet mode))
 of (x == NULL)
 of pulnty (" memory full");
    exit(0).
 setucia se
moid fuernode (NODE x) {
fuer (x)
 NODE Leacust fuent (NODE fuent, But Esser) }
 NODE temp;
  temp = getnode();
 temp > Enfo = item;
 temp > link = NULL;
  Pf (frout == NULL)
  { seturn temp, }
  temp - link = ficest # F
  feust = temp;
   autuum feest;
```

```
NODE insent- Mar ( NODE filest) ent dem) {
  NODE cur, temp;
   temp = getnode ():
   temp > Pupo = Ptemo
   temp -> Link = NULL.
   Pf (fillst == NULL)
    eletuem temp
   Cur = fierst "
   while ( cui - link 1= NULL)
      cun = cun > like
      cur -> link = temp's
   althem flust "
 NODE delete-front (NODE feust) }
 NODE temp
 if (fillet = = NULL) }
  perint (" list is unpty");
  neturn firest; 4
 temp = flust;
 temp = temp > linko
puints (" "Hem deleted at front end");
 full (flust).
 setuen temp:
NODE delete- mean ( NODE finist) }
 NODE au, puer;
 if (first == NULL) {
  puint ("list is empty");
 quetuem firest; 4
```

```
Pf (freist - link = = NULL)
 { puint (" Hem deleted is "/od", faut > into);
   force (flust);
   autuein NULL:
 polev = NULL ?
Cur = fierst ;
 while (cui > link != NULL)
   & pluer = cuer;
    Cuer = cuer - Link ;
 perentf (" Prem deleted is "od", cuer > info);
 ferer (cur);
 Prev - link = NULL:
 neturn firest;
void display (NODE final) &
 NODE temp
  if (fillst == NULL)
  puints (" West is empty");
 food (temp= folist; temp) = NULL; temp=
   temp > link) }
     perint ("% d In", tempsinto);
```

```
NODE SOUL (NODE flust) {
  NODE cue, temp;
   if (filest = = NULL)
     eletuem NULL;
   cue = finst
   while ( and '1 = NULL) of
    if (tem > infra < cum >inform) of
       int mufa = cun > mufa;
       au + mila = temp > iagos in 0,3
       temp richo = i
       temp = temp + link,
       cue - cuer - Llnk, &
     aleturn first;
NODE grencerse (NODE frast) {
  NODE au , temp?
  cuer = NULL:
  while (flest ! = NULL)
  of temp = first;
    filest = filest > link?
    temp - link = cur;
    aver = temp;
 return aus;
NODE concat (NODE fieust, NODE second) {
```

```
ENODE aux.

If (flut == NOLL)

Pletum second;

If (second == NULL)

eneturn flust;

cur = flust;

cur = flust;

cur = cur > link;

cur > link = second;

return flust;
```