```
(ab program 5
(5) II include & stdio. h>
  # include establib h)
  It include clonio. h)
  stomet mode
  int injo
  Struct node + link;
  type day stouct mode * NODE
  NODE golnode ()
  NODE X
  x = (NODE) maller ( sign of Cstouret med)
  if (x== NULL)
   printf ("Memory is full In");
   escit(o)
 * Number
 Void foured CNODE X)
  Du (x);
NODE insend-frond (NODE first, Ind item)
NODE temp
 temp: getnedi ().
 temp - Soryo: item:
temp - s wik = NULL;
I ( PIXS + = = NOLL)
```

dust renter temp -> link = first, first = temp. terif wester NODE delete front (NODE First) NODE temp if (first == NULL) ("Vist is outy, connect Debte item's) Itmined return first: temp-first temp = temp - link: wind & ("Item deleted at the frond end o rid In Pour (first); contour temps NODE insert-ruor (NODE first, int item) NODE temp, cur; temp = getnode (); temp - singo = item temp - s link = NULL; if (first == NULC) sutur temp. cur = first: while (con-) link! = NULL) aur => cur -> link oction first;

```
NODE dulite suos ( NODE first )
 NODE ON bows
if (first == NULL)
pount ( the list is empty, cannot Delete
        item (n");
 sudvoun first,
if (first -) link == NULL)
pound for Item Delited is: 1 d', first-sing
Fru (first );
 julion null;
WUN word
cur = first
while ( our-s link! = NULL)
 brews curi
cia: aus -s link;
pointf ("Hem deleted at the suar-end
15: -1.d', cur-singo);
fore (cur);
pow - Jink = NULL;
rutur first;
NODE insend-bost (int item, int pos,
NODE FILST)
```

temp = getwode (1) + comp- > 11 mk = NUCL 4 (first = = NULL - dd pos = = 2) outson temp ("Invalid boston") I forces terif number (f (pos == 2) territ : drive dunot fins I waster [= true) DUN = WOLL cun = first while (con 1 = NULL & & count! = pos! form = cur - s vink (+ + bruss) (eog == true) } vous s une = temp temps dink= wij terif rules pount ("IP In") Aunn First

void display (NODE first) NODE demp (Cfirst == NULL) pounds ("List is EMPTY, cannot Display for chemps first, temps = NUCC; temp temp-sunk) printer 1. 4/10 "tourpsingo) vord maines int Hern, choice, pos NODE first = NULL; for (:) made stilled : 6 n/ treat break in a ? Delite Som In 3 Insert-suar in a: Delite-sucrins Inorad bosino: display - list in7 . Exitiv mintel. Engen the opice. Sanj ("1.d" & choice) Swifeh & choice 1 case I : point ("Enter the Hem at From -end: ") Sanfin 1-d" & item first - insept-front cfirst it aut (does; first = delete_forent (first)

(ase I [ane B Arat = dalate - seen (first); louse & : display (first) defoult: exi+(0); House