TOPE STATE ! #include cstdio.n> # include estalib. h > Arty stor limb typedet stract noder struct node * link;

de; l node; node * roof = NULLI ; - 17th = 17th void add-at-bigin () 11111 = in a conta node retemp priorie ("Them delated is temp = (node *) maloc (sizeot (node)) printf ("Enter Flode Blement In "). scanf ("!d", ktemp->data). temp -> link = NULL: if (root == NULL) root = temp else temp -> link = root;

Hindude Cstlic.h. void delete-rear (). include Establic. struct node * ptr1, *ptr2;
ptr1 = roof; while (pfr L-> lint / F NULL) f ptr2 = ptr1; ptro = ptro ->linkyjuva - 1001 de abon ptr2 -> link = NULL ; aigid- au bab bion printf ("Ifem deleted is . I.d", ptr 1 -> datal; free (ptr2) dossie) dossie (dossid ground return ; [" al dook stonen f. In 1] consid aun [" . ed" , "temp-relata). [1] Atgrul tri if (100 == 1001) i node *p; 106 + = fem 10 p = toot : int 1=01 whip (pl=NULL) £ 1++ ; temp - wink = mot r i++; p=p-> linf; : quo = tool . return 1;

void sor-list () { void search 1. struit node + current = root HINDEN = NULL . int temp; show toward . if (root = = NULL) ; int ken i return; els e s while Courtenford NULL) (1) I fring inden = Eurrent-(s) (ink b) fame? while (inden! = NOLL) beto controit (current - > data 20 joden () -> data) p temp = current =>data; current > data' = inden -) data; inden -> derfa = temp gmo) : dinst inden = inden -> Link; (0== 00) } Current = current -> link · voide Misplany () hoose amot about (HOW = Eymot) 47

void search () to ore Ingress " Aforth a resort storuet node + femp=root; int key; int ct = 0 ; int flag = 0; print f ("Enter the clement need to be searches: scanf (v. s.d. 4, pky); mond = monde while (temp != NOLL) print Caclement 1.d flume in position at 14; kief, cr.) in in = qmit current & ciata' = incien) laia of. temp = temp = silink stable (stable) if (flag == 0) ; since mobai = mobai print f (* element is not there in listin"); voide display ()
node *femp = roof;
if (temp==NULL)

```
p. deteterment);
     printf ["No nodes in the list in");
    'avhile (femp! - NULL)
printf [".(d in , temp ->data);
temp = temp ->link;
                        i 1) donne : 3 seur
                             (3 ) (NO : F 921)
 int main ()
 int opportunier desse out ) Harry: limotel
  while (L)
  printf (a) x * * * * * to Enter the operation In
         1. Insent front In 2 orditer Reat in 3. displayin
         4. Order list in 5. lingthin 6 searchin 7. enitin);
  scanf ("/d", bop);
 switch cop)
   case! add-al-begin [1;
break:
```

case 2: deleter-rear (); -case 3: desplay (1) break; case 4: sortList (11), - 1 quai) about Case 5 : break; len = length(); printf (" The length is /din", ken); break; coese 6: Search (); break; case 7 : enit 6); main! briak. default : printf ("No sueb operation in"); When it is a to eight the ablination in appropriate Popular Part Land from the Sont Anoth town I. C 4. Ender list to 5. Ength hab scare him it entires Mare ! and an begin !!