cue = head -> llink;

```
temp -> llink = cua;
 cue -> alenk = temp;
  head - Wink = temp;
 temp -> Think = head;
head - info = head - info + 1;
  actom head;
NODE insect-left pos (int item, NODE head)
    NODE temp, cue, pren;
   of ( head -> rlink == head)
 & printt ("list empty (n");
    setum head;
   cue = head -> rlenk;
   while (my = head)
    if (item = = cue -> info) break.
     cue = cue -> selent;
  ) if (cul = = head)
     printf ("key not found In");
      actum head;
    prev = cue -> llink;
  printf (" Enter wow and left of . I.d = ", "two);
     temp = get node ();
    Scarf ("10d", & temp -> "nfo);
      prev -> rlenk = terp;
      temp - llink = prev;
      cue - llent = temp;
      temp -> rlink = cue;
        xtom head;
    NODE delete-all-key (int 9 ton, NODE head)
```

```
NODE prev, cue, next;
Ent count ;
"If ( head -> rlink = = head)
    printf ("List Emply");
      seturn head;
   count = 0 :
 cue shead -> slink;
 while (are = head)
  if ( item ! = cue > inho)
    cue = cue > rlink;
  count ++;
  prev = cue - link :
  next = cul -> rlink;
   prev-rlank = next ;
   next-> Llink = pren;
 freerode (cul);
    cue = rext :
if (court = = 0)
  printf ("key not found ");
  printf (" key found at . (.d positions and are deleted in"
                                                  count):
NODE ddelete - real (NODE head)
  MODE wir, pren ;
   of (head -> rlink == head)
 < printf(" list & rophy (n");
      setum head;
```

```
cue = head -> 119nk;
        Prev = cue -> LEnk;
        head -> (lenk = prev;
        Prev - runk = head;
printf(" the node deleted is = ( d", one + into);
     freerode (cue);
     setum head;
    word desplay (NOOE head)
   & MODE tout ;
    if (head -> rlank = = head)
      pronth ("list enply 10");
       setum;
  for (temp = head -> rlank; temp! = head; temp = temp -> rlink)
    Print (". 1. d", temp -> inho);
     void nain ()
    9nt iten, choice, Key;
     NODE head, ten;
      head = getnode ();
     head -> rlenk = head;
     head - llak = head;
  for (;;)
I parti ("In 1. insul-real 2. insect-key 3. display 4. delete key
       5. delete-real 6. exet (n");
  printf (" Enter the choice: ");
     seart (". I.d", & choice).
       Switch (choice),
       case 1: printf (" Enter the : ten : ");
              scarf ("1.d", & item)
```

```
head = insect-real (head, item);
        break;
case 2: prentf (" entre the key eten: ");
         scarf ( ". (.d " & : tem);
   head = insect-left pos (item, head);
          break;
case 3: display (head);
            break;
case 4: printf (" Enter the key "ton: ");
          scont (".1.d", & item);
        head = delete_all-key (2+cm, head);
               break;
 case 5: head = ddelete-real (head);
             break;
 case 6 %
  default : exit (0);
            break:
```

```
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 1
enter the item : 12
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 1
enter the item : 23
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 2
enter the key item : \overline{12}
enter towards left of 12=11
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 3
11
12
23
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
enter the choice : 2
enter the key item : 11
enter towards left of 11=10
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 3
10
11
12
23
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 4
enter the key item : 23
key found at 1 positions and are deleted
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 3
10
11
12
1.insert_rear 2.insert_key 3.display 4.delete key 5.delete_rear
6.exit
enter the choice : 6
[Program finished]
```