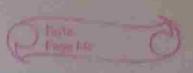
Doeble-linked list

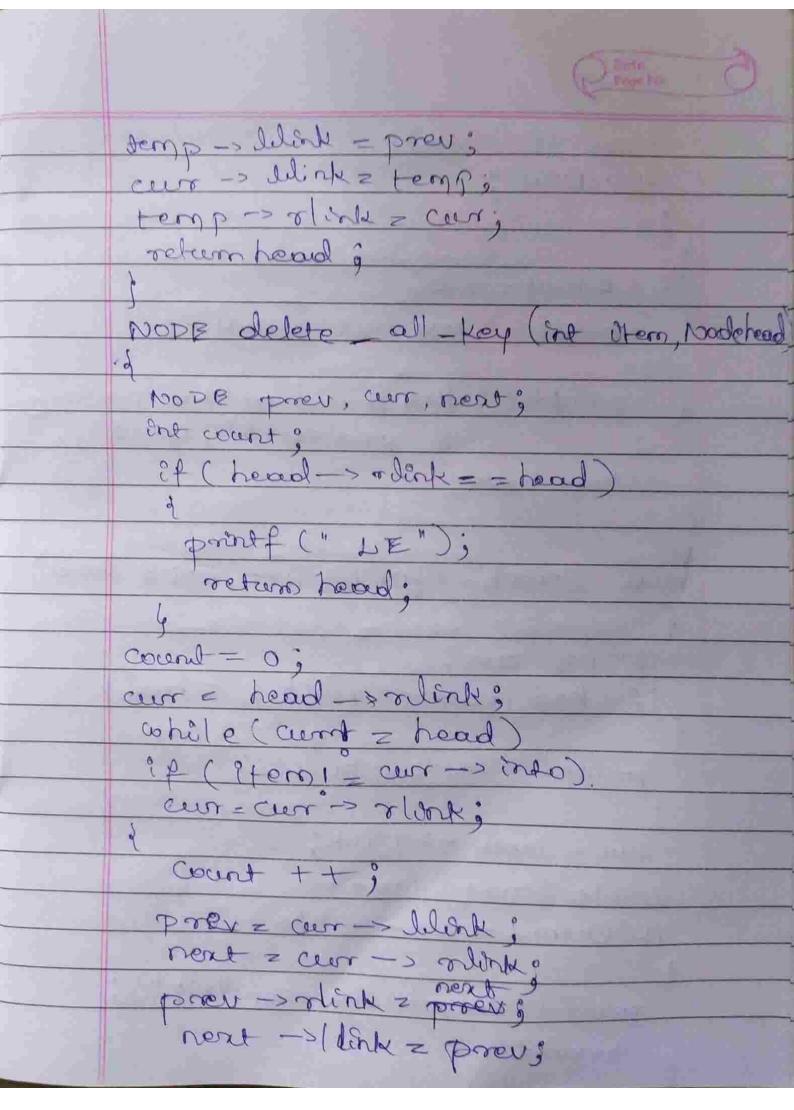
```
#mclude & getalio. hs
# Inchude < Stable b. h>
# Include < process. h>
struct node
    int info:
Street node * I link;
Smet node * rlink;
 Appeale f Struct node * NODE;
NODE get NODE node ()
    NODE X;

X=(NODE) mallore(size of (struct node))
    pointf ("mem fell 'n");
      mit (0);
void freehode (NODE X
  fore (2) ;
```



Note decent more (in stern, note food) NODE demp, cur; dernp = get node (); Jemp -> "ofo = item; cur = head -> Ilink: hood - slibry = temp; temp -> Mink = cur; Jemp -> odonk = head; cer -> mlank = temp; return head: NOTE abolate - front (NODE hoad NODE cur, next; of (heard -> orlink = = head prompe (" of emptylo"); return heard); Cur = heard -> + link: next = aur -> They. head = > olonk = near; next -> Wink = heard; printf (" Etem deleted 1.d" + au - info fracrode (Cer); return head;

NODE insort - logit post int item, NODE, head PE Chearl -> orlenk = = heard porter (" list empty 10"); return head; Cer = head -> relink: while (curs = head if (stern = = cur-> info) break; if cor = = had parent (" wey not found"); return head; prove cur -> link; point (" Enter towards left of of oltemp = getrode (); sconf (1.1.d"), y femp -> info); poreu -> nlike z fergp;



printf (" key not found"); point (" key found at old positions
g deleted \n", count); Vodal Search - info (out item, NODB head) if (fred head -> relink = = head) proontf (" light empty In"); Cur = head -> rdink; while (cure 1 = head) prontf (" search Successfully 10");

```
cur = au -> mlink;
  : f ( cur = = heard)
   print f (" Info not found In");
vood deeplay ( noore heard )
   NODE Jemp;
 if (head -> orderk = = head)

parent ( ( 13 d empty In ");
for (term = head -> rolink; temp! z head;
temp > rolink)
   points ("Nodlo", temp--info);
Void main ()
 ant storm, choose, pay;
  NODE best head;
  head = get node ();
head = plople = head;
```

for (33) printf (" In 1. Engent rear In 2. delete-front in 3. insont-key- so left 104. delete all key 10 5. secrething displaying each) postof ("Enter the chaicelo"); Scarp (4.1.d, & charce); Suit of Cahorco) case 1: print (" Enser item 10"); conf ("-1.d", gitem); head = insent - rear (head, item); cose à : lost = oldklete-front (head); case 3: pointf ("Enter the key ""); Scanf (" 1 d", ditem); heard & delete he and zinsent lef pos (item, lead); 6 reaks Cose 4; prompt ("Enter the item(");
scanf (" o/ed", Q itemm); heard z delete - all - key (item, heard);

scanf (" 1.01", & item);

Scanch_info (item, head);

break;

case 6; olisplay (head);

break;

olefault; onit (0); eage 50 prontf (" Enter key 10");