

	Double linked list : An a growth
	- Lung a head - shink in
	# include Estalion >
	# include < stallibity
	Strict node
	1 gm -t - simil - aus
	int info; bood akutor
	of at node & Tlink
· (,)	smich node & link;
- 1	
	type def strict node * NODE:
	DNODE get bode () E
	MAN DE X
	NO DE X; X = (NODE) malloc (size of (struct
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(Mode));
	& if (z== NULL)
	- 1 has the contract of the
	paint f (" Memory full \n");
	eighted in the state of
`	2:0 - 1 doile to the sa
10	206.20 % in the state of the st
(I)	1 menor a
	Nope dinsert-rear (int item, NODE
	head) a
1	ROW LONDE temp, Cursin
J m 347	Sulekha

temp -> info = item; Cur = head -> Alink; head -> rlink = temp' temp > Wink thead; temp > & link = cur; Cur > llink = temp; return head; NODE ddelete-front (NODE head) NODE connection NODE cur, next; if (head > rlink == head) printf("dg empty. In");

Leturn head; cur = head > glink; next = car > & link; head I rlink = next; next > llink = head; printf(" the stem deleted is dodm" \$ free (cur); 2 return head; NODE ddelete= rear (NODE head)



NODE cur, prev; if (head > slink == head) print f (" dg empty \n")
retur head; prev= cus -> (link) head > 1 link = prex; prey > rlink = head; print f ("The Ptem deleted is "od In") free (aux); NODE Pleasch (NODE head, Int key, NODE cur, prev, temp; Pht 1=0, 0=15, 11 of Chead > xlink printf ("list empty 1n") return head;

Scanned with CamScanner

```
if (cu >) info == key) {
f=1;
 Cur = cur > rlink;
 if (f==144 z==0) 1
  print f ("Search Successful, found at
 index % d \n", c);
  return head)
  paget frake them deleted
  if (f==144 ===1) {
   prer = cur > l'link;
  Printf ("Enter towards left of
 = ", key);
  temp = get node () 30 1/1
    Scanfa(1/2 d'if temp->info);
  prev -> Alink = temp!
  temp -> llink = previ
Cui - llint - temp;
     femp > rlink = cus
 2 return head ;
    if (f==1 4 & z==2)
```



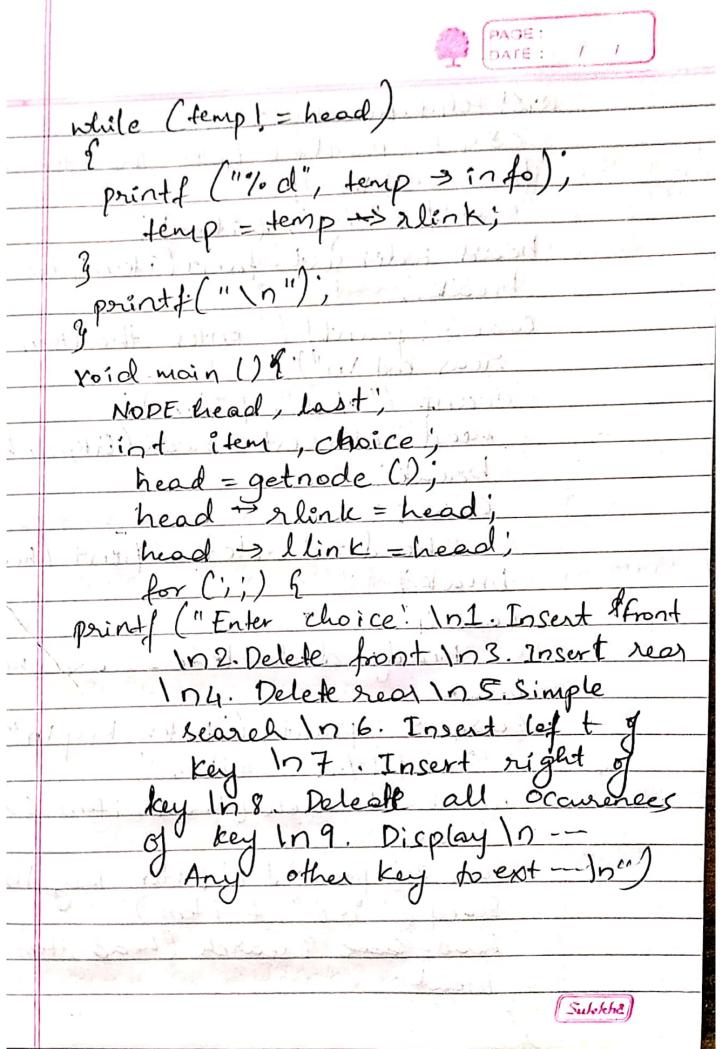
prev = cur; 31112 g = 1x31 cur = cur > link; print f ("Enter towards right of " od= tay); temp - get node (); scanf ("E/d", & temp > info); Prev - rlink = temp) temp > llink = persprer; Cur > llink = temp; temp) rlink = temp 2 return heard; [] + Forms printf (" Sealch Unsuccessful 10"); NODE delete-all-key (Entritem, NODE

head)

Lose jour jour pages him int count; next;

if (head) rlink = = head) return head is (a (count o + et m) (no) ") I trick prev = au > llink;

next = cus > x link; prex -> & link = nexot; next > link = previ free (au); if (count == 0) will to anot print found at % od posts 4 deletel 1711; count return head 10 troid display (NODE head) NODE temp; to link 1= = liead) printf ("dg empty \n") Printf (" confents of dg \n"); temp = head > r link;



Scanned with CamScanner

switch (choice) for the tem at front endin") is it string Scanf ("1.1.d", 6: tem); head = dinsert-front(item, head); break;

case 3: prints ("enter the item at

reas end In");

scanf ("1.1.d", of item);

head = din sert = reas (litem, head); Cases: Indelete - front (head); to break, in fill follow 1 ("From choice: 4:00-cost + Though heads d'deletete - rare (head), ele in break sone stated in the printf("Enter Key In"); Scanfi(:1.d" 4 filem), head = I search (head, item 1);

break;

case 7: print of ("Fater leay \n");

Scanf ("% d", 4 item);

head=Gade T search (head, item; 2); break.