I Memory efficient doubly linked list:

Insent - front (head, data)

node new = new rode ()

new -> data = data

new -> Ptrdiff = head

if (head ! = NULL)

head -> Ptroliff = head -> Ptroliff XOR new

head = new

return head;

Insent_rear (head, data)

node new = new node()

new -> data = data if (head == NULL)

temp = head, Prev = NULL

while (temp!= NULL)

next = prev XDR temp -> ptrdiff

Prev = temp

temp = next

Prev -> Ptrdiff = Prev -> Ptrdiff. MOR new

new - ptr diff = prev

redun head