

- D Checking if a linked list is Ciencular linked list on not!

Appreach:

I we need to check a given linked let is Corcular, Meaning the last node should point back to some provious node in the list instead of NULL

Traverse the list by starting from the first node till the last one.

I be neach the head node again during traversal, the list is circular of we neach NULL, the list is not listed

Paragram:

# include < etdio. b>

# include < stdlib.h>

Stauct NEDP !

int data:

Struct Node\* next;

Storuct Node\* receteNode (int data);

11 Function to shock if the linked list is Circular

int is Cisicular (Storuct Node\* head)

11 If head is null, list is empty, ciercular il (! head). see turn 1;

Storuct Node temp = head;

11 Traverse until the end is reached or next node

llequale the head

while ( head head > next! = temp)

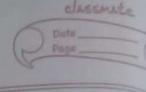
bread = head -> next;

Il I and meached before finding head again, list is 11 ancolar

il (!head !!! (head > next))

return o:

getween 1;



Storuct Node" (seatered (int data) ] Staruct Nade new Made = rollac (81300) (81910ct Nade); newNode > data = data; new Node -> next = NULL; see turn newNode; int Main () 9 Storuct Node " head = 19ceat Node (1); head > next = (see at Node (2); head - next - next = weate Node (3); head -> next -> next -> heat = (sceate Nede (+); II check if the anked liet is associase is Circular (head)? print ("Yes h"): print ("No h"); 11 Making the linked list ciercular head -> next -> heat -> next -> next = head; 11 check again if the linked lift is concuber is Ciscolog (head)! printfo ("Yer In"): printf ("No In") returno;

Working of Code:

Deceating a mode:

A linked list is receased with fown nodes

head > 1 -> 2 -> 3 -> 4 -> null

- A temporary pointer temp is set to head

  \* The Start totaloxing

  \* The totaloxical greather WILL, Meaning liet is not

  \* Print "No"
  - B Making the Liet Concular head → 1 → 2 → 3 → fe
- A This time the toravorual oceacher head again,
  the liet is Circular

  A The function returne I, and Yes is printed