

Circular Linked List



VEDUCLASH
Just Another Way To Learn

Create Circular Linked List

- Creating a linked list

Algorithm `create_linked_list(struct link *header)`

1. [initialize]

1. `header->next= NULL`
2. Point the node to the header

2. Repeat while(`ch!='n'`)

1. `node->next= create a dynamic list of type struct link`
2. `node=node->next`
3. Input the data for the node
4. `node->next = null`
5. `node_counts=node_counts +1`
6. Ask the user for continuing to create the list

Create Circular Linked List cont...

3. if(ch=='n')

1. node->next=header

2. node=node->next

3. node->info=node_counts

4. Display " NO OF NODES IN THE LIST"



Displaying a linked list

Algorithm `display_linked_list(struct link *header)`

1. `node=point to the first node`
2. Repeat `while(node!=header)`
 1. Display `node->info`
 2. `node=node-> next`
3. `if(node==header)`
`display "TOTAL NO. OF NODES:"`

Algorithm to Insert node in the middle of the list

Algorithm insert_in_the_middle(struct link *header)

1. [initialize]

node_num=1;

node=point to the next node

previous=address of the header

2. Input the location at which the node is to be inserted.



Algorithm to Insert node in the middle of the list Continued..

3. if(insert_node<=node_counts)

1. Repeat 1

while(node!=header)

if(node_num= insert_node)

1. new1 =create a
dynamic list of
type struct link

2. point new1 to node

3. point previous to
new1

4. Enter the value for
the new node new1

else

1. point node to the
next node

2. point previous to
the next node

node_num++

2. node=header

node_nfo=node_counts

else

display " THERE ARE ONLY
'node_counts' NODES IN
THE LIST"

Algorithm to delete desired node from the

list

Algorithm

delete_desired_node(struct link
*header)

1.[initialize]

node_number=1

delete_node=0

node=point to the first
node

previous=address of the
header

2. Enter the node number you want
to delete

3. Repeat while(node!=header)

1.if node_number=delete_node

1. previous->next=

node->next

2. free(node)

else

1. node=point node
to the next node

2. previous=point previous
to the next

node

node_number++