Circular link list

Hem field - value Un field - address

Circular linged list:
A checular linear list is a list where a sump
hist of last nodes point to the very
list. In circular linged list, the first and final node
are linged together. This type of linged list is
billers for data ingest,
most useful for managing buffers for data ingest,
and in cases were we have one of the in a list
and we should interate through an onte
in the list in one particular order. As sections
circular list doesnot have a natural forst
last node. [Last]
(tivst)
10 head > 20 30 30 30
A circular liny list has no end. However, we set
the actional bointes head and last as a whear
ling list. A head pointer is used for both first
and last.
Algeritam to insert a list.
Algorithm to insert a new node at the beginning of
Clear I Meave a new
design an item to the new node.
step: 3 If the list is priority empty, see me
field of the new node to point uself.
Step: 4 Otherwise, set the link field of last node to
point new node:

Is to boint the
Step: 6 Set the liny field of new node to point the first node. Step: 6 Set the start to point the new node.
list node
et cot the start to point the new node
sep. 6 set me so
Algorithm to insert a new node at the end of the linged list.
Algorithm w
Lingea List
Step: 1 Create a new node.
all the lift is holowy with
tist field of new node to point itself.
Step: 4 Otherwise, Set the time of the
1 L laif fla new node.
Step:5 Set the linged field of new node to point the first node.
the first node.
step: 6 Set the external pointer last lo point the
new node.
Deleting node from the beginning:
0 1
Algorithm to delete a node from the beginning
(detering first node)
Step: 1 It the list is empty brint "empty list" and and
oten ? Set link field of last node to be in
Step: 1 If the list is empty print "empty list" and evil. 8tep: 2 Set link field of last node to point the second node (next node of first node)
, Titt water

Step: 3 Set start equals to point the second nocle. Step: 4 End
Stepi4 End
Algorithm to delete a node from the end
Algorithm to delete a node from the end (deleting last node)
Step: 1 It the linged list is empty print "empty list" and exit.
and exit.
2 Cat 11 linked held of last node as NULL.
chairs. Sociale for the node whose next hour comment
· H MINI MANIE IN LINES ROOM
of the state of tound set the many bound
to point the form
Step: 5 Set the external pointer test in 1
node
Step: 6 End
Doubly linged list:
linged together by multiple number of ling which help in accessing both the successor node and pred cessor I beam the given node position. It is
help in accessing both the successor road strip
callet nade
bi-directional travelsing node.
Each node in doubly linged list ha
tion linked fields. These are used
Successor and predicessor node.