Doubly Linked List metode: Approde lastinode) Før: A +> B +> C 1- = NOOd/og EFter: A & B & C & 70 Kode: old = tail tail tail = node x only = 2000 Eail Previous = 012 old next = tail sould and ? ADD Node First (node) FOT: A G B G C DE SOLONIAM SOL Eller; D (>) A (>) B (>) C PRINE "YOU WON! Kode: Old = head head = node head, next = old old . prev = head ADD last + Add First: (data) Samme som overfor, med denne linje node = new Wode (data) Tilføjelse: if (old) {...3 else: head /tail = tail/head

Remove last
For: A - B - C Effer: A - B
Exter. A -13
Kode: tail prev:
Kode: tail. Prev. next = noll
6ail = tail. Prev
else: tail= null
head = null
Remove first!
samme som ovenfor, bare omventt
, bare omvendt
Remove vode (node)
current = heat
while carrent:
if current = node:
if current = head
remove first()
elif current = tail:
remove Lasty
eise:
current. next. Prev = car
Current Prev mext = current
current = current, next

Insert before node (New, existing) For: A-B-C Efter: A-B-D-C Rode: if existing = = head: add node first (new) else! NEW, Prev = existing. Prev New, next = existing existing Previnext, = new existing . Prev = mew Insert after node (wew, existing) Kode. if existing = = taili add node last (New) else; New Prev = existing New next = existing, next existing next prev = New existing, next = New

swap wodes (a, b) Rettelse:
+01 A-13-C-D OLLA-Adata
Efter. B-A-C-D A.data = B.data
N LACE DADE CO
Kode: Old Prev A = A Prev
DOF WEXT A = A. NEXT
if A. Wext == Bil
A. Plev = B
A. Wext = B. Next B. Wext. Prev = A
B. Wext = A
B. Prev = Old Prev A old Prev A, next=1
elif B. Next = A
A. Next = B
A. Prev = B. Prev B. Prev. Next = A
B. Next = Old Wext A old Wext A. Prev = B
B. Prev = A
else;
A. Next = B. Next B. Next Per = A
A Prev = B. Prev B. Prev. Wext = A
B. Next = OIZ Next A ONA, Prev = B
B. Prev = OIZ Prev A OPA. Next=B
if A == head:
head = B
elif B==head:
head = A
if A== tail!
tail = B
elif B== tail:
tail = A