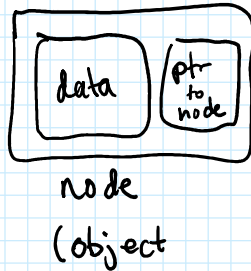


Linked Lists

Monday, September 18, 2023 10:36 AM

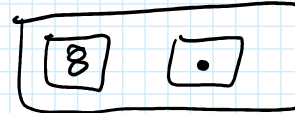
Don't know ahead of time how much data you have to store

Linked
List
ptr-to-
node



8, 6, 7, 5

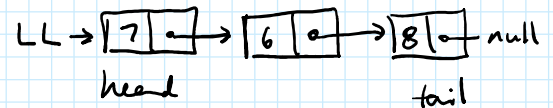
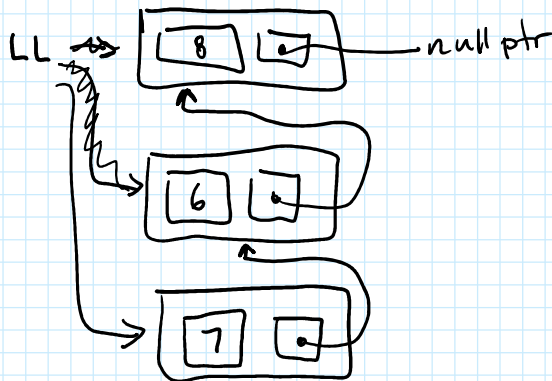
create new node



insert data

connect ptr

LL \rightarrow null ptr



if there are N in LL

- does N affect insertion time? NO

Big O Notation insertion $O(1)$
 \downarrow
order

- lookup : find K^{th} value in LL
requires K iterations $O(N)$

Class node

value

ptr-to-node

class linked list

ptr-to-node head

insert (value)

lookup-k-value (k) $\rightarrow k^{\text{th}}$ value