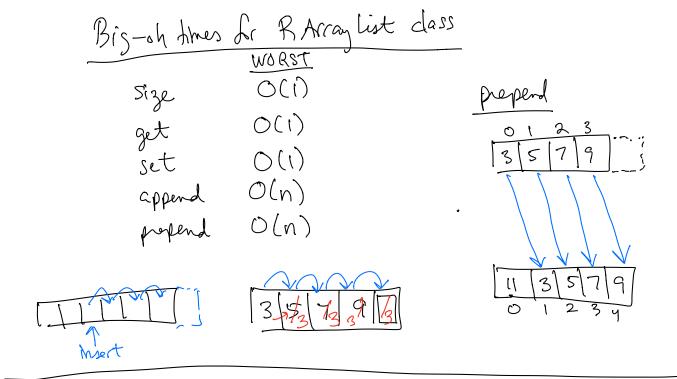
Wap-sp-of biz-on
Worst core/best case/avg case
How do we hardle code w/ "if" statement.
-Linean Search Alg Bisth
· What is the best case scenario? ————————————————————————————————————
· Worst can? - (km is at the end of the list ) [O(n)]
Avy cose? $\longrightarrow [O(\frac{n}{2}) \longrightarrow O(n)]$
52 0
Primarily concerned ul worst/avg cose.
flidden coefficients
Allowed to dop coefficient in big-oh $T(n) = 3n^2 + 9n = O(n^2)$
2 diff algo -> solve the same problem / 1/1(n)
$T_1(n) = 2,000,000 n \rightarrow O(n)$ time
$T_2(n) = 0.0000001n^2 \rightarrow O(n^2)$
n (mpst.)



## Linked Lists

Operations

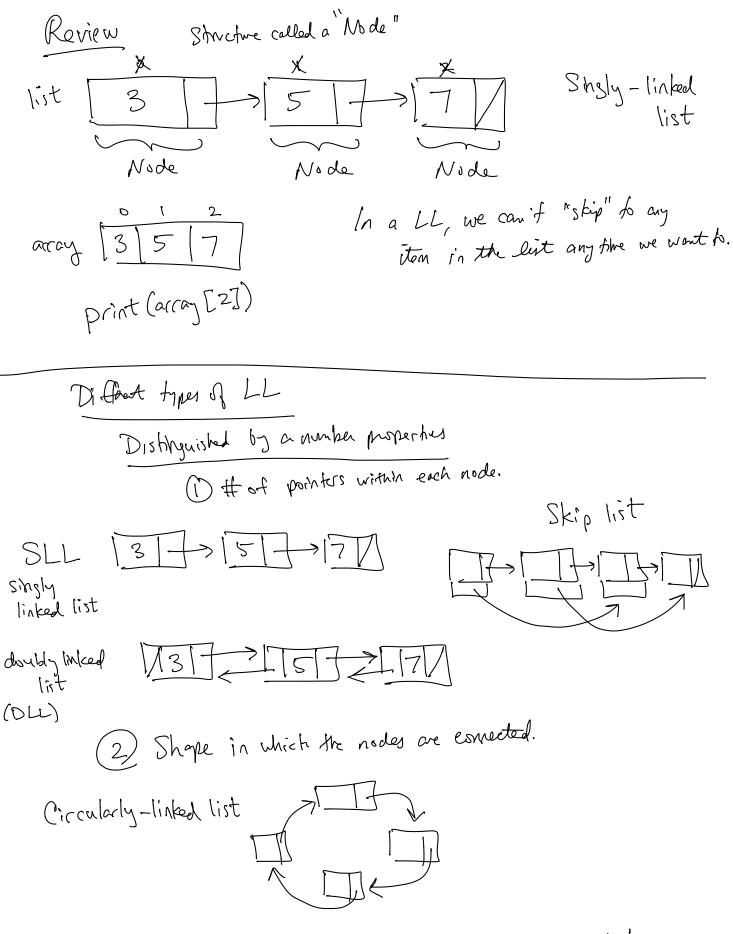
- inserting on ten @ beginning/middle/end
- -remove " " " " "
- yearch for a specific item
- iterate through a LL
- get size

Big idea Array Lists VS Linked Lists

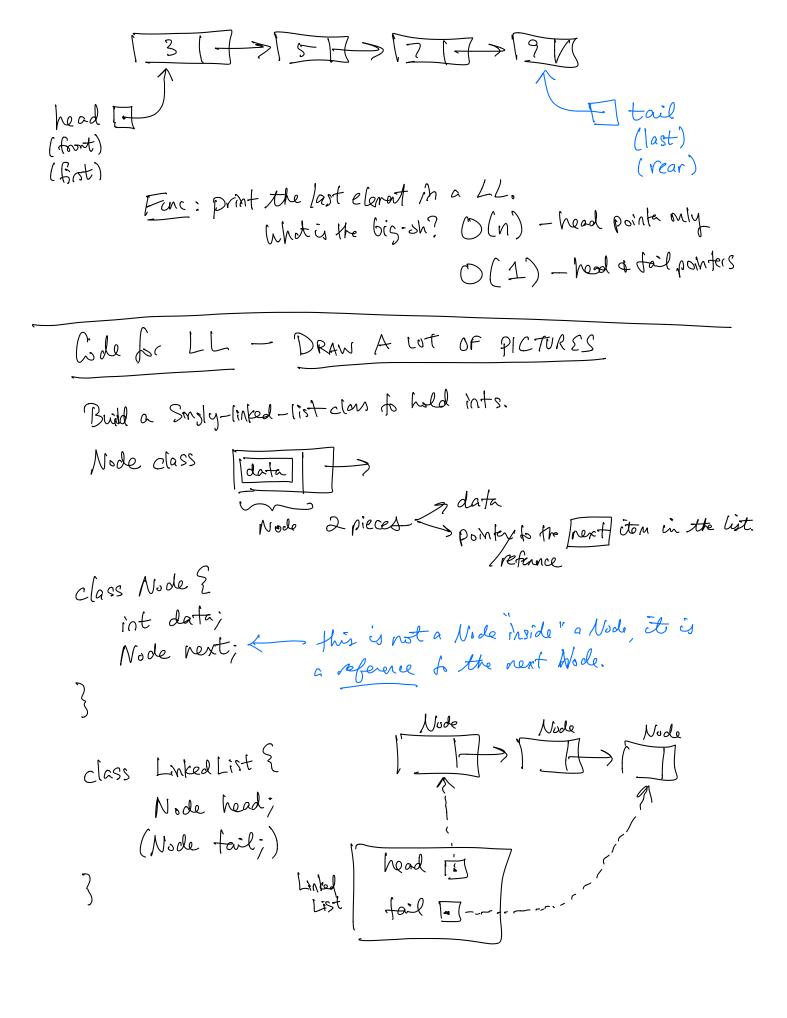
Yes, we haverador across [No, we do not]

Pendom access - means we can retrieve I change any item

in constat fine



3) How many "special" pointers/references we keep around to access the list.



Traversals: going through the LL one elevat at a time.

## Forward direction (left to right)

Node curr = (wherever you want to (normally this is the start francishing) head]

while (stopping condition)

is not true

(normally curr! = null)

(processing step with

(curr data

curr

curr = curr.next;