There are two O(n), O(1) methods

(I) Have a left and right pointers that peach points to the ands of the list.

Then elight make the polate point to the next even and make the right pt's point to the Make the subsequent node.

And make the odd pos. node point to Null.

And make the polate to next = left next next right next = left next next right next = None

(I) Make a dummy head and even and add pointers. Make the pointers point to the pointers even /odd nodes.

when it reached the end, make the last odd.

(EPI Solh)

1/2

(4.10) Evaluation

"I was moving book and forth w/ the two sol'n method.

The dea B.

I eventually stack w/method (I) but couldn't come up w/ the idea of having two separate even and odd dummy node and link them (last even - first odd) after the loop was finished.

- what it List o Didn't do boundary cases was empty? one eleni? two elm?

If working of ever/odd lists, consider separating Hem.

o prake nodes point to Null each step, then the last

o prake point to Null when the loop is finished.

7/4/22

7.10

€/0: Linked List

·Return a list w/ nodes ad even position first then odd.

· Starts at O

· I probably have to use a durning node

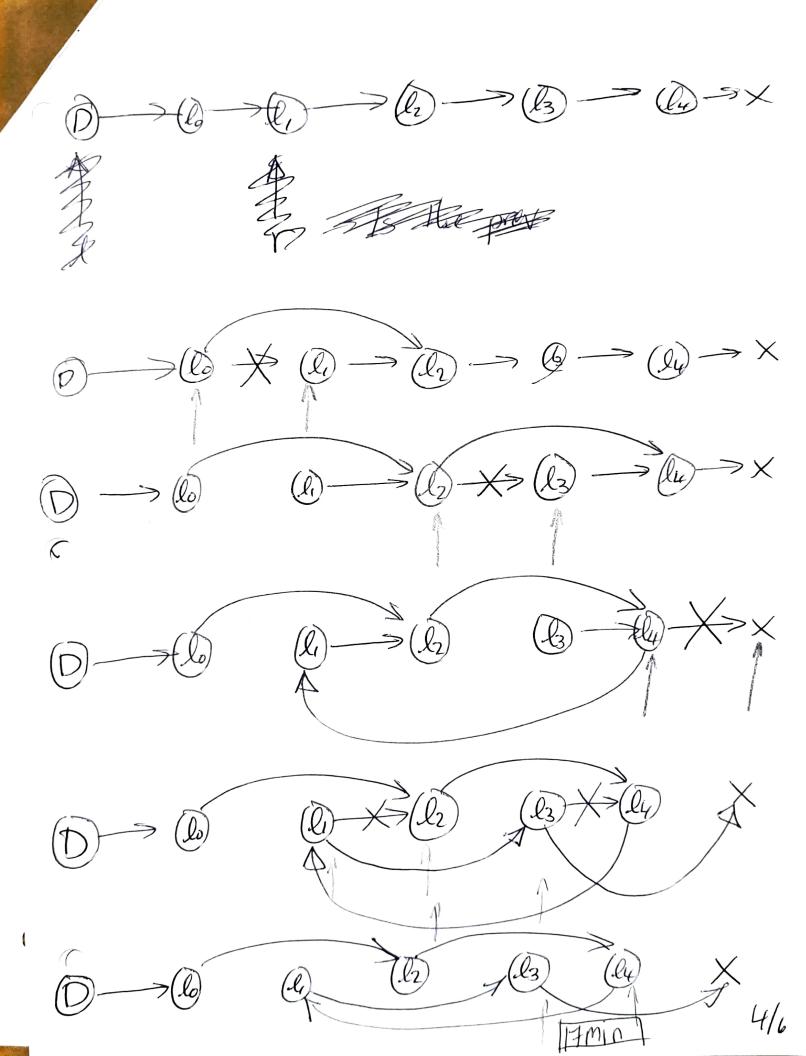
The Naive approach is to keep track of
the steps taken by incrementing a variable
noile traversing through the list.

Then checking if a node is in even/odd position by (x/-2 = = 0).

-> How can I rearrange the list? L> sentind/dumny step=0 (l2) --step=1 -> if step 1/2 = 0, more to next -> Should I use fast/slow pointer? step=2-> if step:1.2=0,

I should use the left end pointer and another pointer that iterates through the list.

r in even position? s yes, move to next I need to check the next node or prev node



There are two steps to this:

- 1) # If the previous node is in even position, make it point # to the next even node.
- (2) When all even nodes are found, make the last even node point to the first odd node.

1) If the curr. node is odd, make the prev. node point to curr. next

Lo take two steps increment?

- when curr == None,

-> I might have to know the length of the list.

-> I should keep track of the first odd node and traverse from there.

When we reach the last even node,

. Then make it point to x.next. next

(SWhat happen when I reach the end?

SEither the last odd point to Mull or the last even.

32 min Quit

Are we working w/arrays, linked lists?

So the input is LL and output is the max value w/in that list.

This might mean for every values that are popped, keep track of the max by taking an item and comparing w/all others. This will take O(n) time O(1) space

def f(l): max = 0 while l: f(l) hile(l) f(l) f(l) hile(l) f(l) hile(l) f(l) f(l) hile(l) f(l) f(

max = l.pop() (.pop() return max

6 min

-Had to use oop for this problem