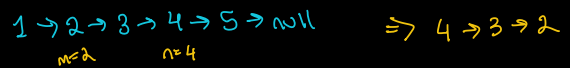
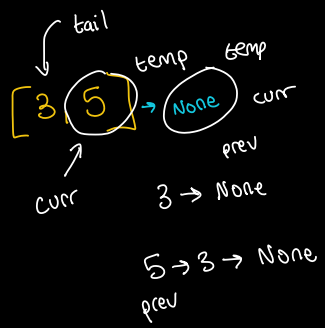
Problem: Given a LL, and #s m and n, return it back with only positions m to n in reverse



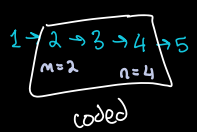
Intro:

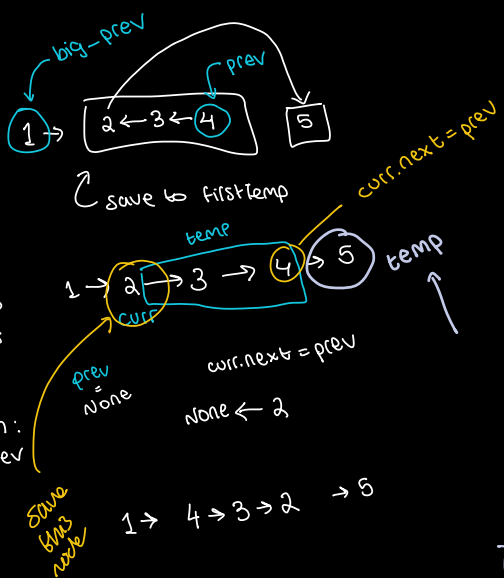
- Verify Constraints
  - m and n always within bounds of LL? yes
- Create Testcases
  - bestcase: 1, 2, 3, 4, 5 m=2, n=4 —> 1,4,3,2,5
  - 1, 4, 3, 2, 5 m=2, n=4 —> 1,4,5,2,3
  - 1, m = n = 1
  - null, m = n = 0



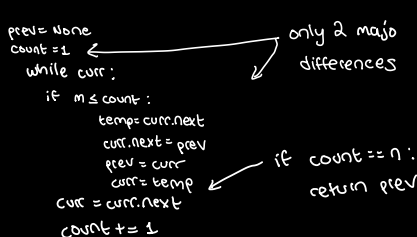
Optimal:

- Brainstorming & Pattern Observations





- Pseudocode



- Write code
- Run through testcases
- Analyze time and space complexity
  Time: O(n)
  Space: O(1)

Technique:
swapping

Edge Case:

If m == left == head

then there won't be a previous node to connect back to!

⇒ check if the prev is null first

temp = curr.next
curr.next = prev
prev = curr
curr = temp

repeat

return prev