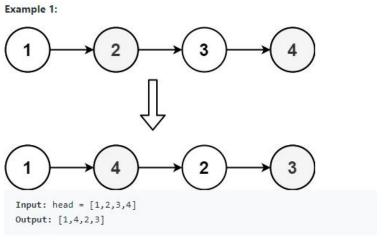
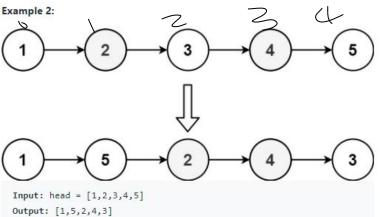
Linked List 143. Reorder List

Constraints:

- The number of nodes in the list is in the range [1, 5 * 104].
- 1 <= Node.val <= 1000





Pattern:

- 1. Linked List
- Every Position has clear next target Position Ex:

- 3. Indexing each node?
- 4. If linking nodes, when to stop?
- 5. Two pointer approach left, right

Seudo:

Func reorder(head):

- 1. Initial a list
- 2. Put every node in to the list
- 3. Initial pointers left and right
- 4. While left < right:
 aList[left].next = aList[right]
 Left += 1
 aList[right].next = aList[left]
 Right -= 1
- !!!!! Check cycle in linked list
- 5. Set the last node next to be None aList[left].next = None