Week 4

Topic: Recursion

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50. Pow(x, n)

- Difficulty: Medium
- Problem URL: https://leetcode.com/problems/powx-n/
- Description:
  給定浮點數 x, 整數 n，設計函式以計算 x^n 值。

Example1:

    Input: x = 2.00000, n = 10
    Output: 1024.00000

Example2:

    Input: x = 2.10000, n = 3
    Output: 9.26100

Example3:

    Input: x = 2.00000, n = -2
    Output: 0.25000

詳細說明與約束條件請參考 Leetcode 網站。

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24. Swap Nodes in Pairs

- Difficulty: Medium
- Problem URL: https://leetcode.com/problems/swap-nodes-in-pairs/

  Description:
  給定一個 ListNode，請交換每兩個相鄰的節點，並返回新的首節點。

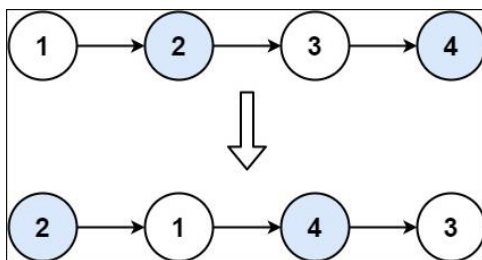 只能交換節點本身，不能修改 ListNode 中節點的值。

Example1:

  Input: head = [1,2,3,4]
  Output: [2,1,4,3]

  Explanation:

Example2:

  Input: head = []
  Output: []

Example3:

  Input: head = [1]
  Output: [1]

Example4:

  Input: head = [1,2,3]
  Output: [2,1,3]

詳細說明與約束條件請參考 Leetcode 網站。
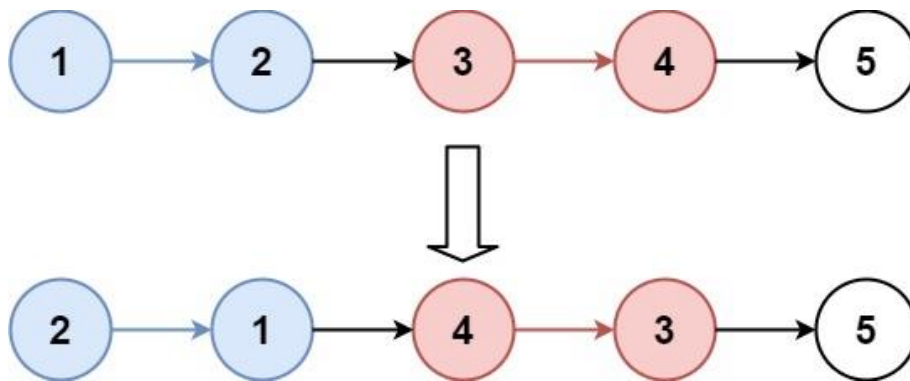
25. Reverse Nodes in k-Group

- Difficulty: Hard
- Problem URL:https://leetcode.com/problems/reverse-nodes-in-k-group/
- Description:
  給定一個 ListNode，和正整數 k，將鏈表中每 k 個節點進行反轉，並返回新的首節點。

  只能交換節點本身，不能修改 ListNode 中節點的值。

Example1:

Input: head = [1,2,3,4,5], k = 2
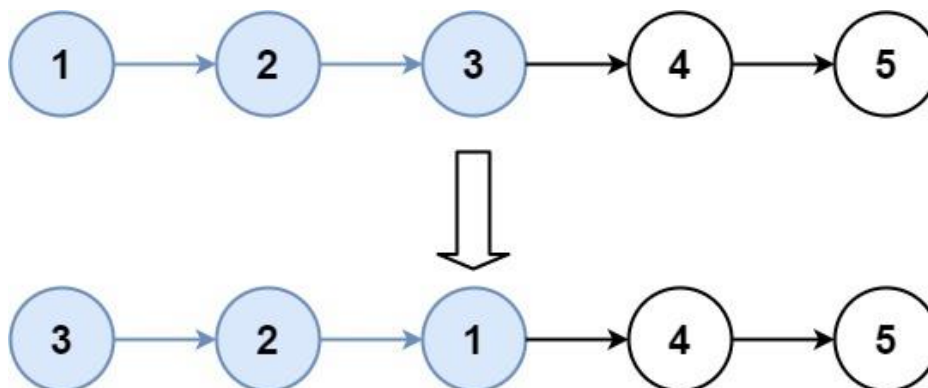Output: [2,1,4,3,5]

Example2:

Input: head = [1,2,3,4,5], k = 3
Output: [3,2,1,4,5]

詳細說明與約束條件請參考 Leetcode 網站。