

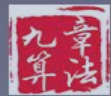
Linked List

课程尚未开始, 请大家耐心等待



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Outline

1. Introduce Dummy Node in Linked List
2. Basic skills in Linked List you should know
3. Fast Slow Pointers



Remove Duplicates from Sorted List II

<http://www.lintcode.com/problem/remove-duplicates-from-sorted-list-ii/>

<http://www.jiuzhang.com/solutions/remove-duplicates-from-sorted-list-ii/>



Reverse Linked List II

<http://www.lintcode.com/problem/reverse-linked-list-ii/>

<http://www.jiuzhang.com/solutions/reverse-linked-list-ii/>



Dummy Node

Scenario: When the head is not determinated

1. Remove Duplicates from Sorted List II
2. Reverse Linked List II
3. Merge Two Sorted Lists
4. Partition List

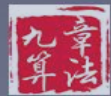
...



Partition List

<http://www.lintcode.com/zh-cn/problem/partition-list/>

<http://www.ninechapter.com/solutions/partition-list/>



Basic Skills

1. Insert a Node in Sorted List
2. Remove a Node from Linked List
3. Reverse a Linked List
4. Merge Two Linked Lists
5. Find the Middle of a Linked List



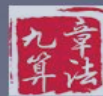
Sort List

<http://www.lintcode.com/problem/sort-list/>
<http://www.jiuzhang.com/solutions/sort-list/>

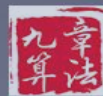


Reorder List

<http://www.lintcode.com/problem/reorder-list/>
<http://www.jiuzhang.com/solutions/reorder-list/>



Break 10 minutes



Fast Slow Pointers

1. Find the Middle of Linked List
 2. Remove Nth Node From End of List
 3. Linked List Cycle I, II
- ...



Merge k Sorted Lists

<http://www.lintcode.com/problem/merge-k-sorted-lists/>

<http://www.jiuzhang.com/solutions/merge-k-sorted-lists/>



Heap vs Divide Conquer

A: Heap Win

B: Divide Conquer Win

C: Even



Copy List with Random Pointer

<http://www.lintcode.com/problem/copy-list-with-random-pointer/>

<http://www.jiuzhang.com/solutions/copy-list-with-random-pointer/>



Convert Sorted List to Balanced Binary Search Tree

<http://www.lintcode.com/problem/convert-sorted-list-to-binary-search-tree/>

<http://www.jiuzhang.com/solutions/convert-sorted-list-to-binary-search-tree/>



Linked List Cycle

<http://www.lintcode.com/problem/linked-list-cycle/>
<http://www.jiuzhang.com/solutions/linked-list-cycle/>



Related Questions

Convert Binary Tree to Doubly Linked List

Reverse List Nodes in k -Groups

