

Linked List

现在是课程答疑时间



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- Introduce Dummy Node
- Basic Linked List Skills
- Two Pointers in Linked List (Fast-slow pointers)

Basic Knowledge Test

What's the output of the following code?

```
1 void print() {  
2     for (ListNode node = head; node != null; node = node.next) {  
3         System.out.print(node.val);  
4         System.out.print("->");  
5     }  
6     System.out.println("null");  
7 }  
8  
9 void main() {  
10     ListNode node1 = new ListNode(1);  
11     ListNode node2 = new ListNode(2);  
12     ListNode node3 = new ListNode(3);  
13     ListNode head = node1;  
14  
15     node1.next = node2;  
16     node2.next = node3;  
17  
18     print(head);  
19  
20     node1 = node2;  
21  
22     print(head);  
23 }
```

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/>

Scenario: When the head is not determinated

Related Questions:

- Merge Two Sorted Lists
- Partition List
- ...

Partition List

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

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

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. Middle of a Linked List

Sort List

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

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

Merge Sort vs Quick Sort

Reorder List

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

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

Take a break



5 minutes break

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

Linked List Cycle

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

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

Rotate List

<http://www.lintcode.com/problem/rotate-list/>

<http://www.jiuzhang.com/solutions/rotate-list/>

Merge k Sorted Lists

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

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

PriorityQueue/Heap vs Divide Conquer

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 BST

<http://www.lintcode.com/problem/convert-sorted-list-to-balanced-bst/>

<http://www.jiuzhang.com/solutions/convert-sorted-list-to-balanced-bst/>

Related Questions

<http://www.lintcode.com/problem/reverse-nodes-in-k-group/>

<http://www.lintcode.com/problem/delete-node-in-the-middle-of-singly-linked-list/>

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