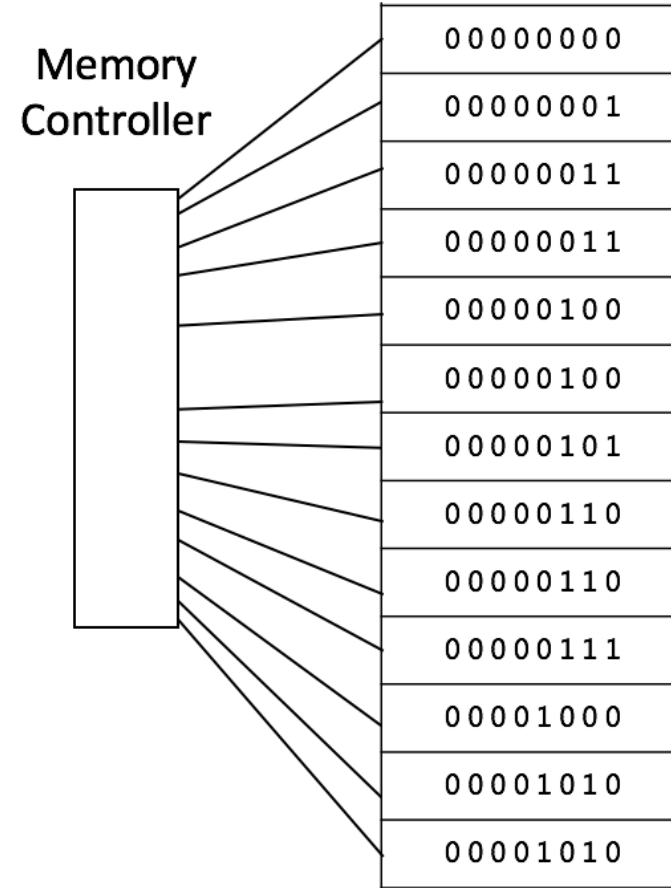


# 面试知识点解析

**数组、链表 (Array、Linked List)**

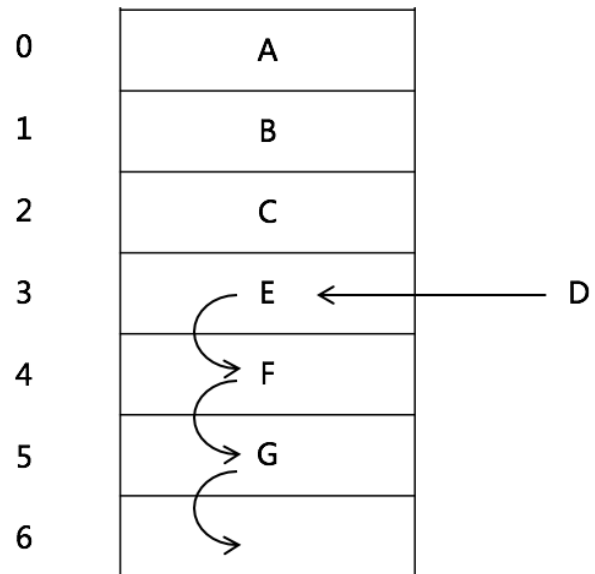
# Array

0	00000011
1	00000001
2	00000101
3	00000100
4	00000011
5	00000000
6	00000000
7	00000000
8	00000000

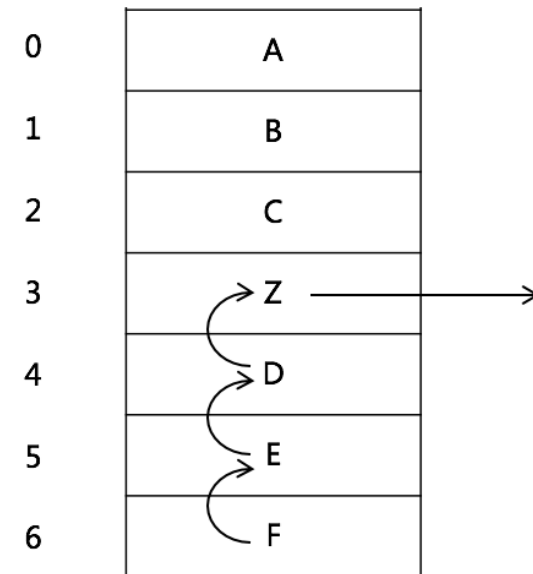


# Array

## Inserting



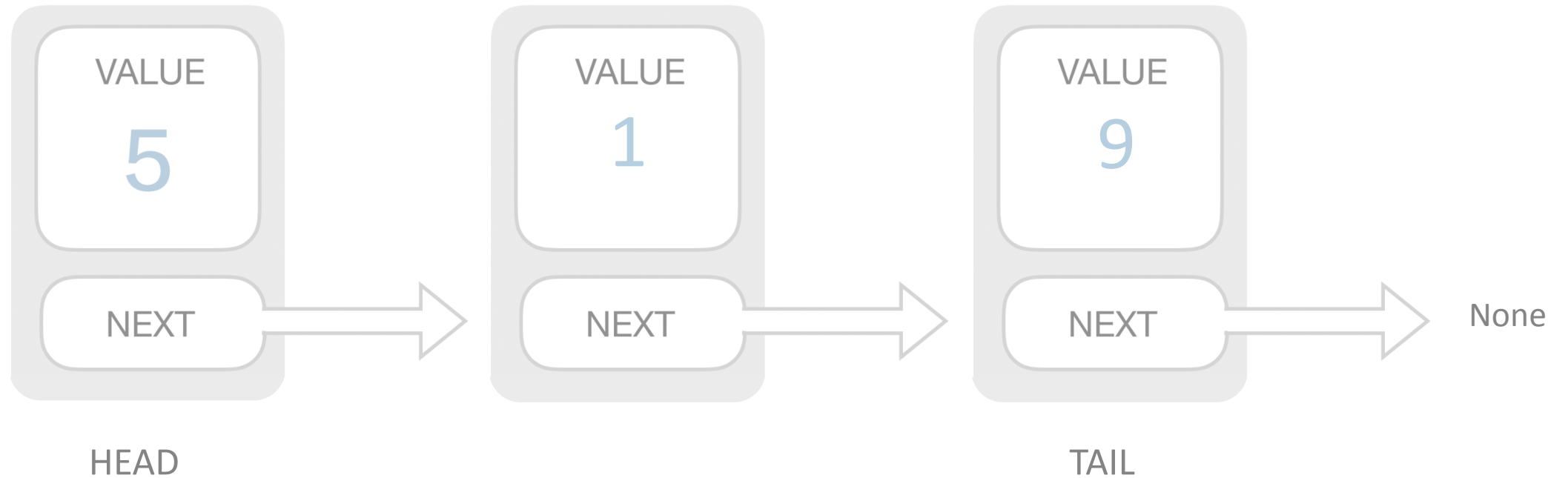
## Deleting

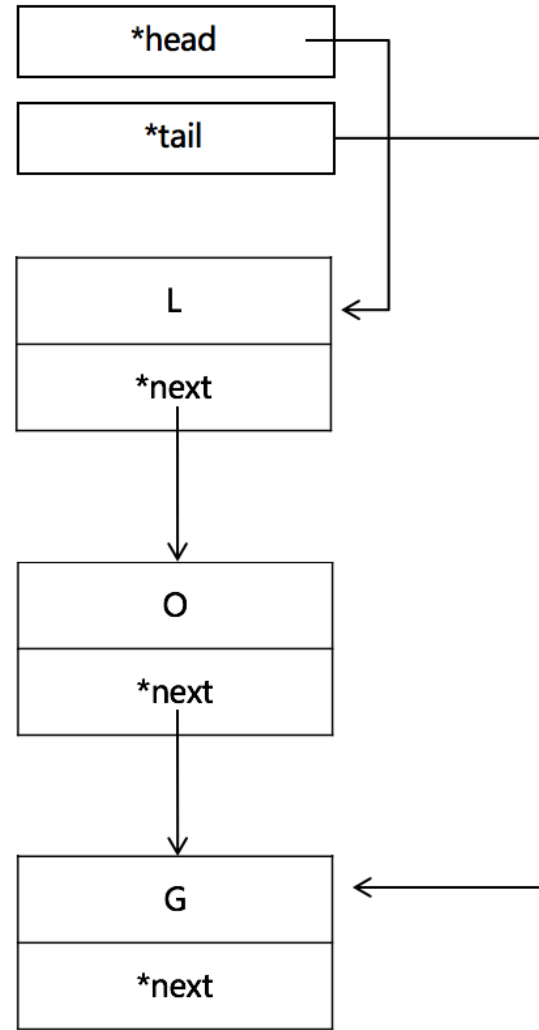


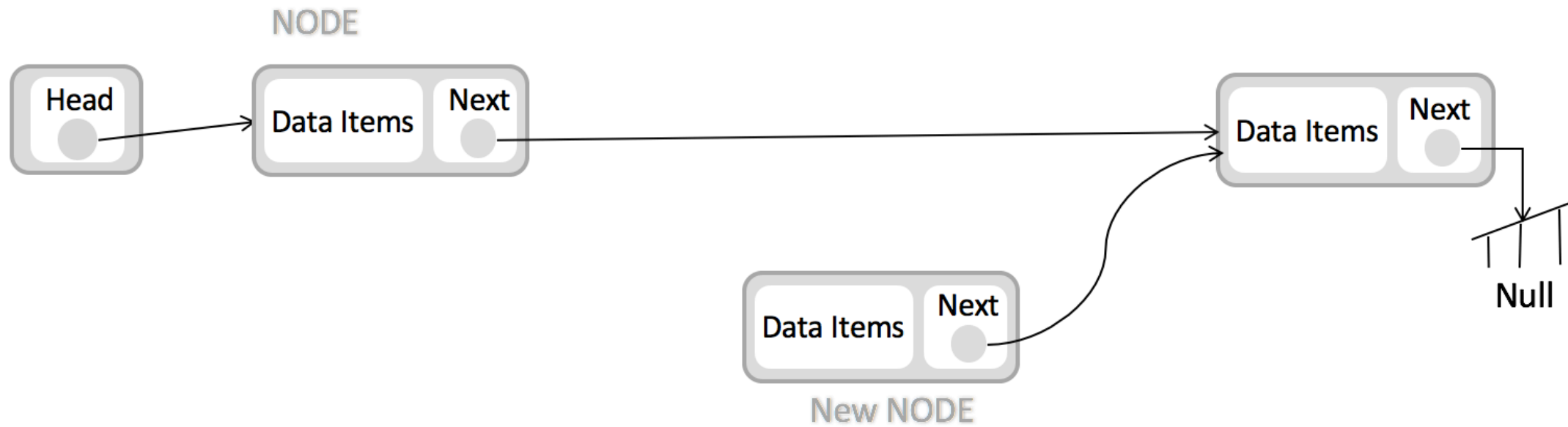
# Array

- Access:  $O(1)$
- Insert: 平均  $O(n)$
- Delete: 平均  $O(n)$

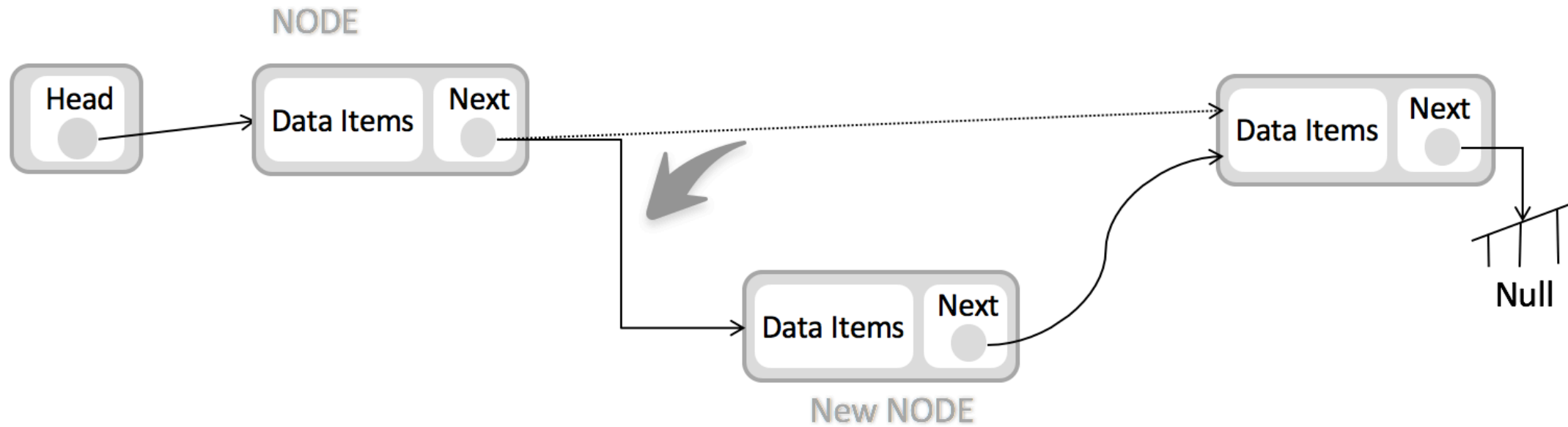
# Linked List

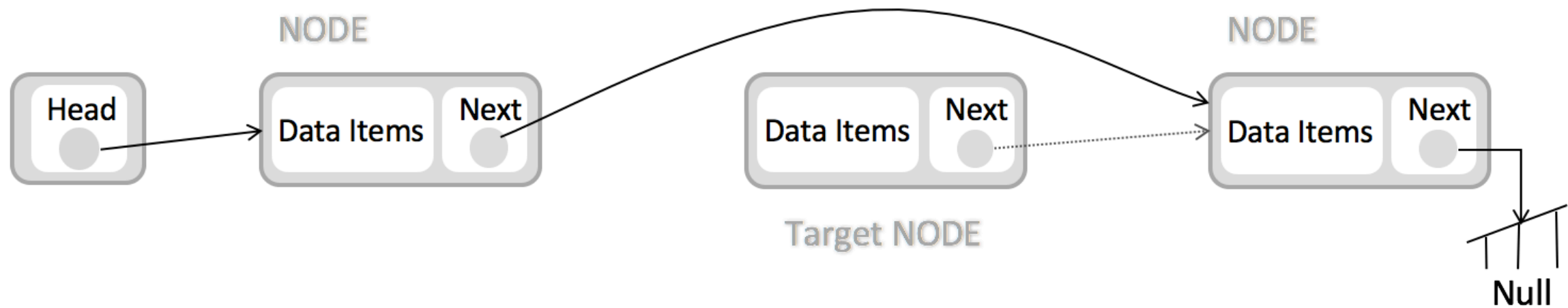
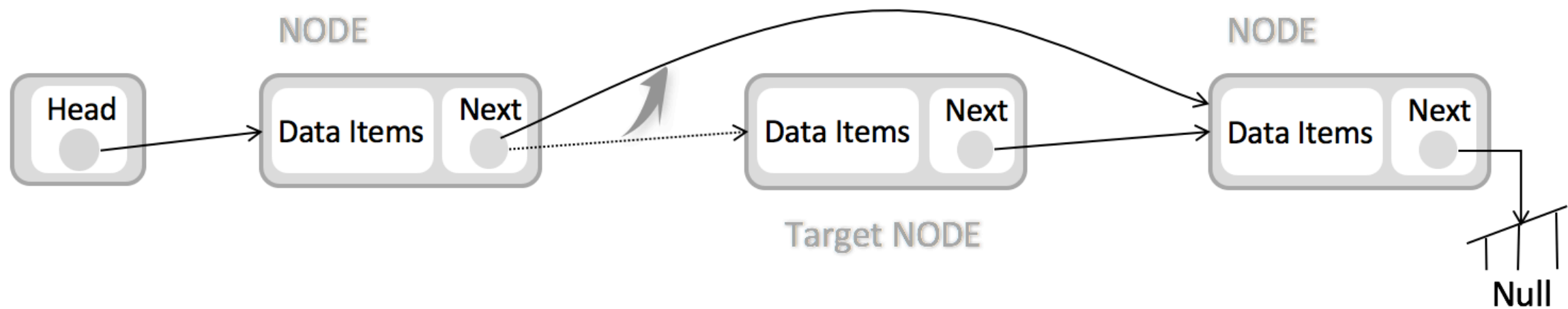






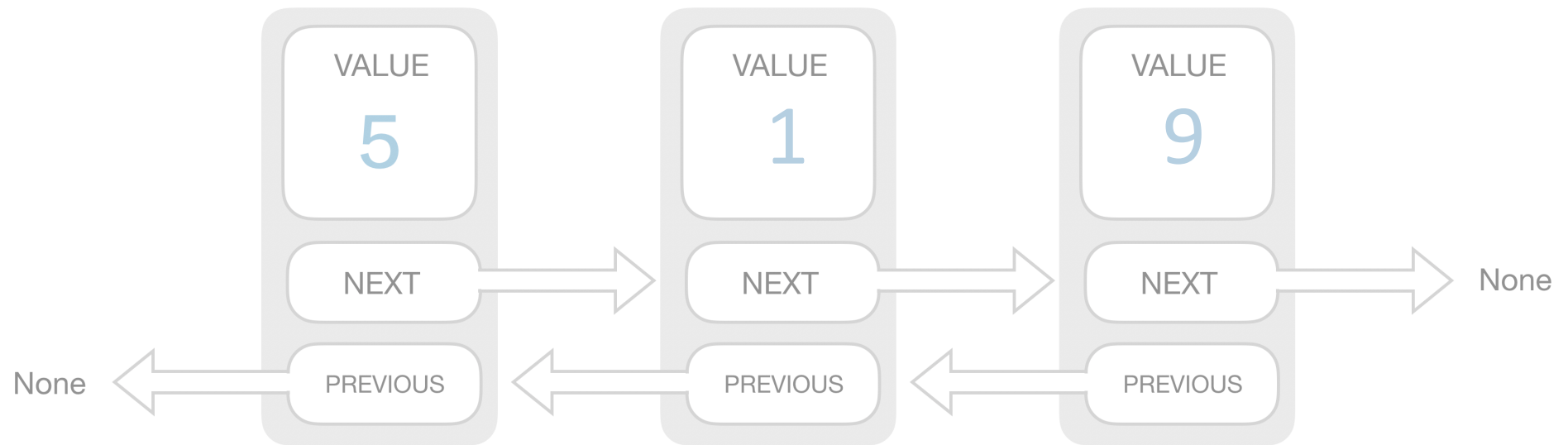
`LeftNode.next -> NewNode;`







# Doubly Linked List



# 时间复杂度

<b>space</b>	$O(n)$
<b>prepend</b>	$O(1)$
<b>append</b>	$O(1)$
<b>lookup</b>	$O(n)$
<b>insert</b>	$O(1)$
<b>delete</b>	$O(1)$

# 实战题目

1. <https://leetcode.com/problems/reverse-linked-list/>
2. <https://leetcode.com/problems/swap-nodes-in-pairs>
3. <https://leetcode.com/problems/linked-list-cycle>
4. <https://leetcode.com/problems/linked-list-cycle-ii>
5. <https://leetcode.com/problems/reverse-nodes-in-k-group/>