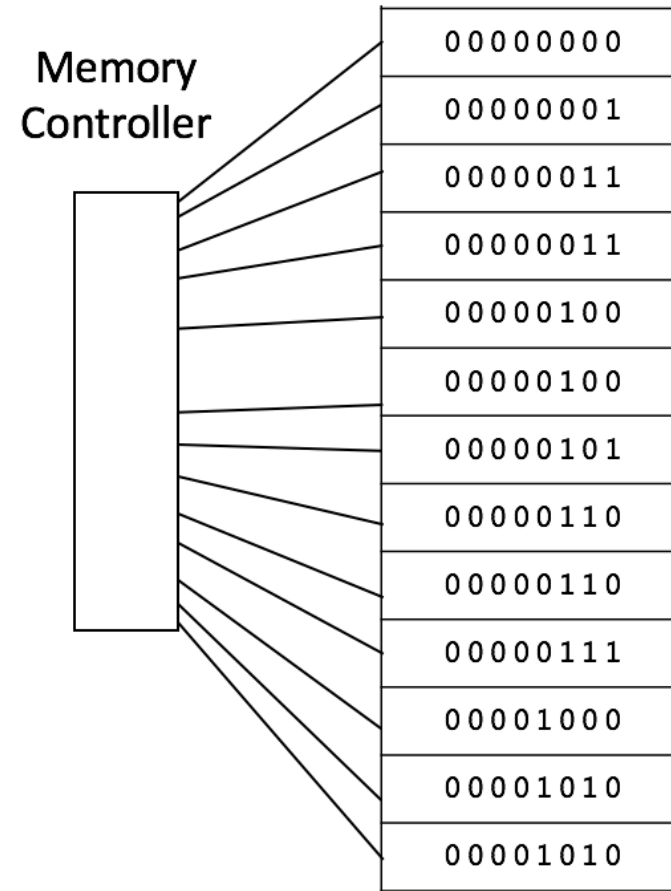


面试知识点解析

数组、链表 (Array、Linked List)

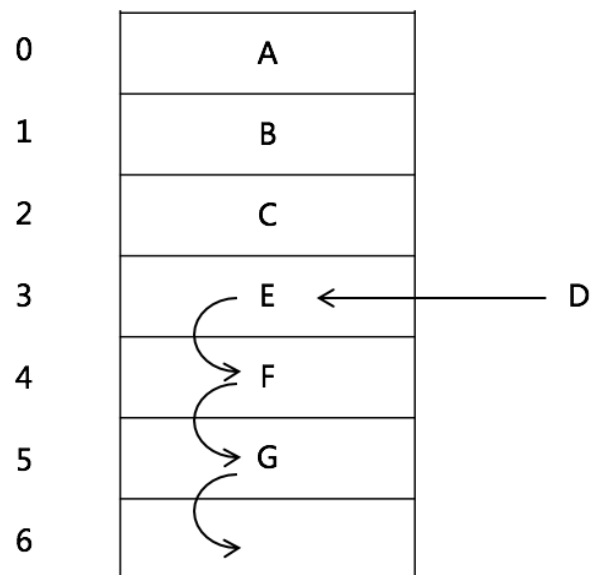
Array

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

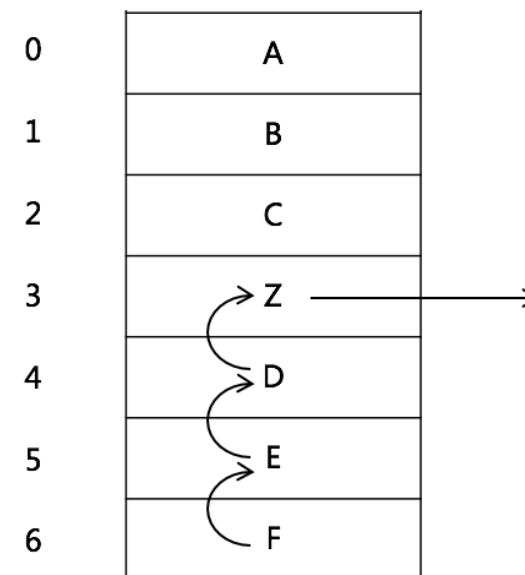


Array

Inserting



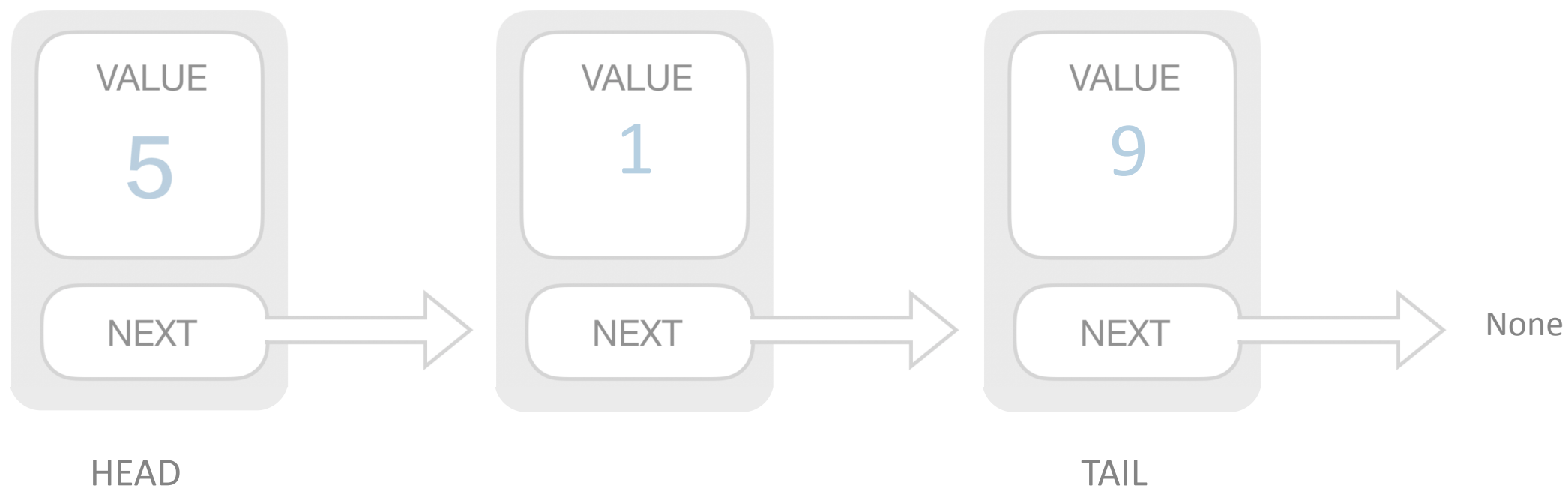
Deleting

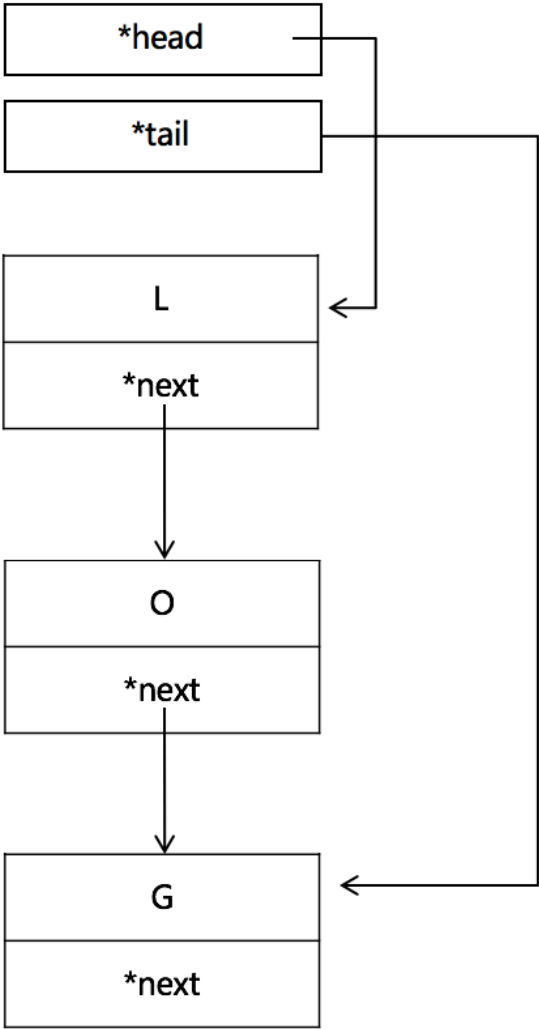


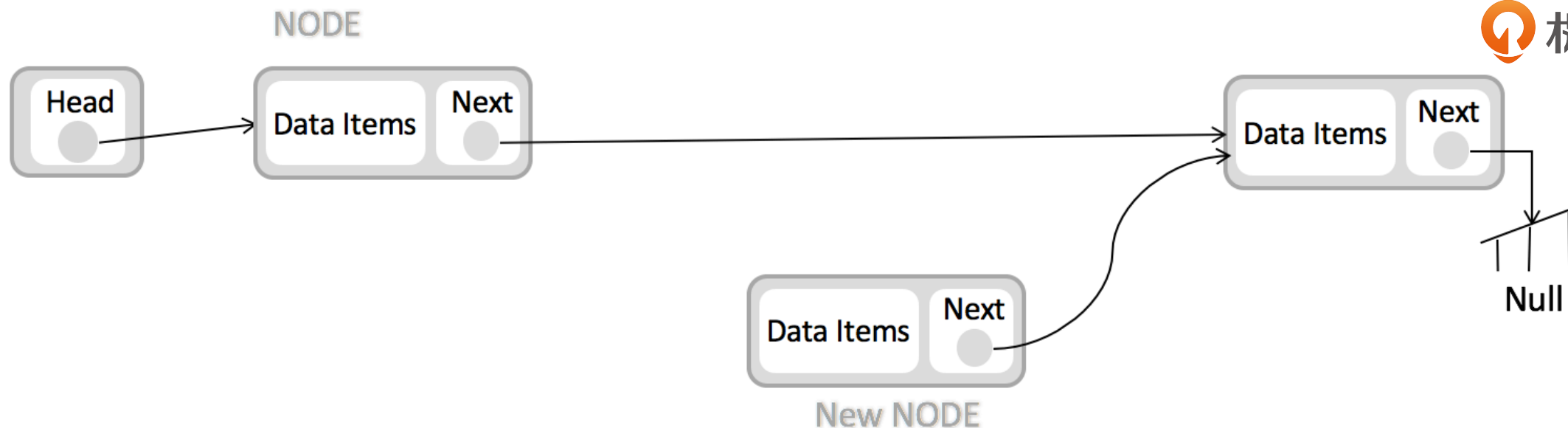
Array

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

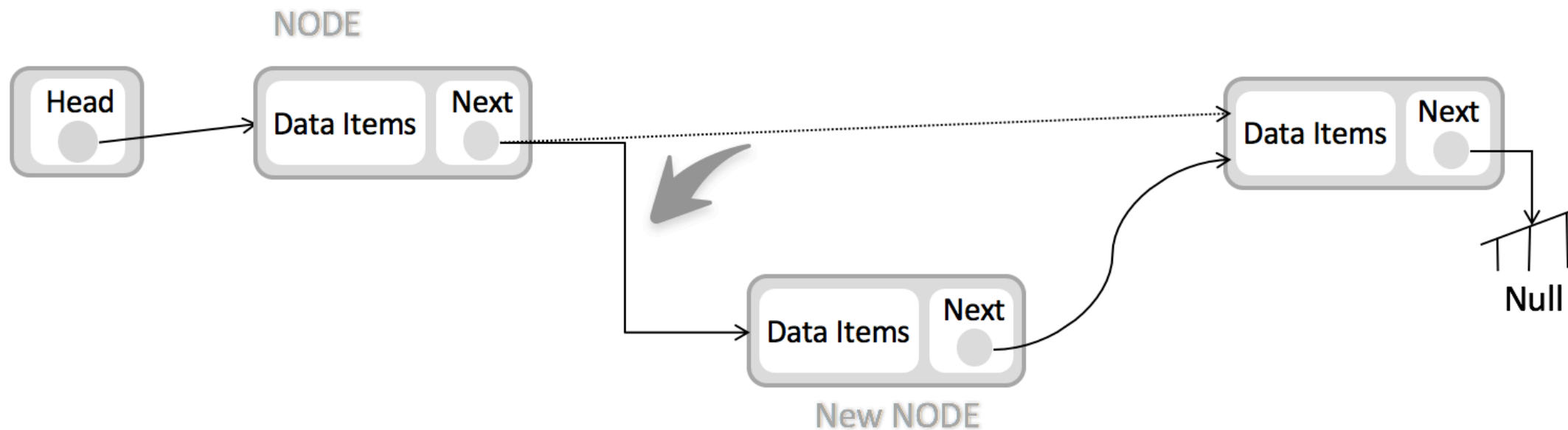
Linked List

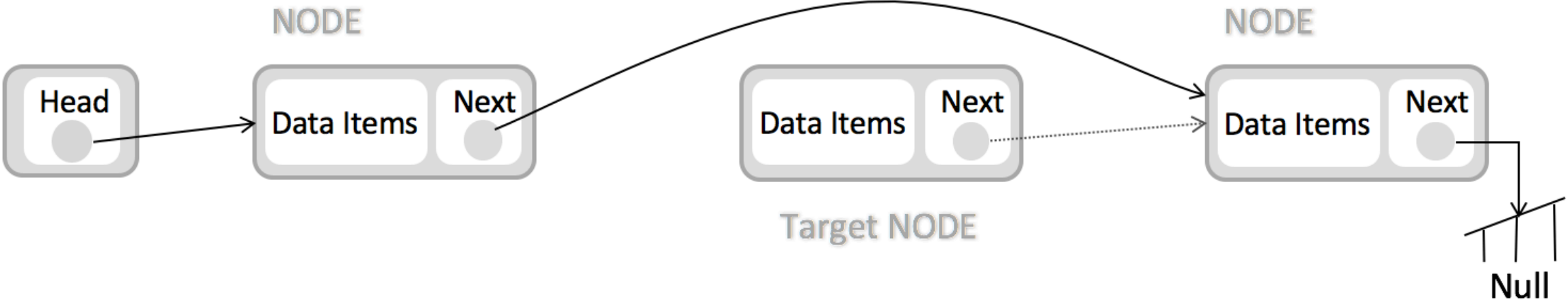
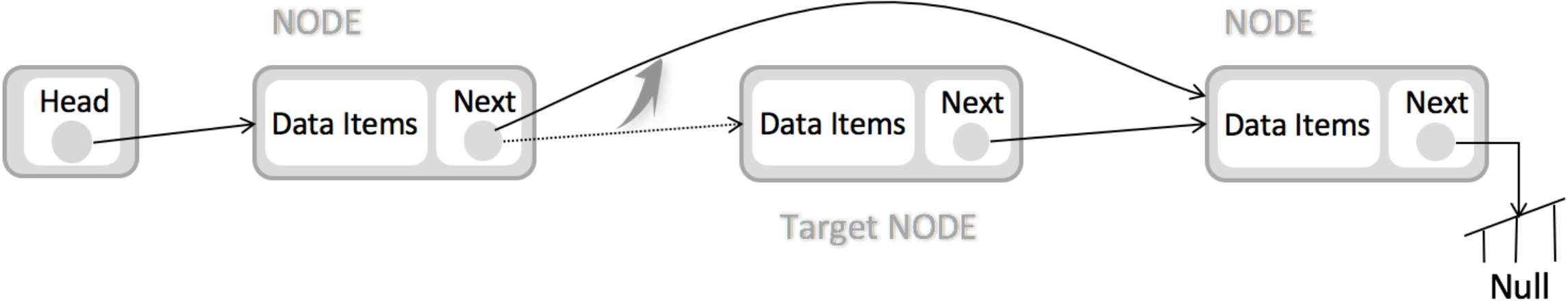




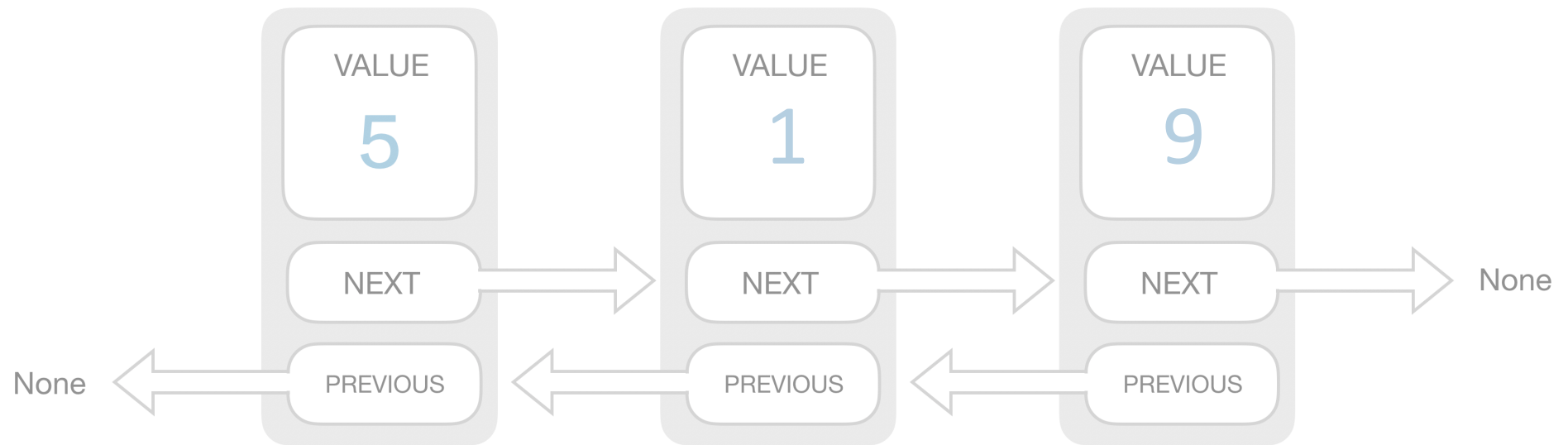


LeftNode.next -> NewNode;





Doubly Linked List



时间复杂度

space	$O(n)$
prepend	$O(1)$
append	$O(1)$
lookup	$O(n)$
insert	$O(1)$
delete	$O(1)$

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/>