LINKED LISTS - SET 2 QUESTIONS

Question 1:

- ❖ **Problem link**:
  https://leetcode.com/problems/convert-binary-number-in-a-linked-list-to-integer/
- ❖ **Difficulty level**: Easy
- ❖ **Expected Complexity**:
  - ➢ Time: O(n)
  - ➢ Extra space: O(1)

Question 2:

- ❖ **Problem link**: https://leetcode.com/problems/delete-node-in-a-linked-list/
- ❖ **Difficulty level**: Easy
- ❖ **Expected Complexity**:
  - ➢ Time: O(1)
  - ➢ Extra space: O(1)

Question 3:

- ❖ **Problem link**: https://leetcode.com/problems/palindrome-linked-list/
- ❖ **Difficulty level**: Easy
- ❖ **Expected Complexity**:
  - ➢ Time: O(n)
  - ➢ Extra space: (1)

Question 4:

- **Problem link**: https://leetcode.com/problems/reverse-linked-list-ii/
- **Difficulty level**: Medium
- **Expected Complexity**:
  - Time: O(n)
  - Extra space: O(1)

Question 5:

- **Problem link**: https://leetcode.com/problems/insertion-sort-list/
- **Difficulty level**: Medium
- **Expected Complexity**:
  - Time: O(n^2)
  - Extra space: O(1)

Question 6:

- **Problem link**: https://practice.geeksforgeeks.org/problems/merge-two-sorted-linked-lists/1
- **Difficulty level**: Medium
- **Expected Complexity**:
  - Time: O(n+m)
  - Extra space: O(1)

Question 7:

- ❖ **Problem link**:
  https://practice.geeksforgeeks.org/problems/swap-kth-node-from-beginning-and-kth-node-from-end-in-a-singly-linked-list/1
- ❖ **Difficulty level**: Medium
- ❖ **Expected Complexity**:
  - ➢ Time: O(n)
  - ➢ Extra space: O(1)

Question 8:

- ❖ **Problem link**: https://leetcode.com/problems/merge-k-sorted-lists/
- ❖ **Difficulty level**: Hard
- ❖ **Expected Complexity**:
  - ➢ Time: O(n log k)
  - ➢ Extra space:O(n)

Question 9:

- ❖ **Problem link**:
  https://practice.geeksforgeeks.org/problems/quicksort-on-doubly-linked-list/1/
- ❖ **Difficulty level**: Hard
- ❖ **Expected Complexity**:
  - ➢ Time:O(n(logn))
  - ➢ Extra space: O(1)

Note: The solutions of all these questions will be provided on 3rd June, 2021