STACK & QUEUE - SET 1 QUESTIONS

Question 1:

- **Problem link**: https://leetcode.com/problems/valid-parentheses/
- **Difficulty level**: Easy
- **Expected Complexity**:
  - Time: O(n)
  - Extra space: O(n)

Question 2:

- **Problem link**: https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/
- **Difficulty level**: Easy
- **Expected Complexity**:
  - Time: O(n)
  - Extra space: O(n)

Question 3:

- **Problem link**: https://leetcode.com/problems/implement-stack-using-queues/
- **Difficulty level**: Easy
- **Expected Complexity**:
  - Time: One of the operations 'push' or 'pop' may take O(1) time and the other may take O(n) time.
  - Extra space: O(n)

Question 4:

- **Problem link**: https://leetcode.com/problems/implement-queue-using-stacks/
- **Difficulty level**: Easy
- **Expected Complexity**:
  - Time: One of the operations 'enqueue' or 'dequeue' may take O(1) time and the other may take O(n) time.
  - Extra space: O(n)

Question 5:

- **Problem link**: https://leetcode.com/problems/design-circular-queue/
- **Difficulty level**: Medium
- **Expected Complexity**:
  - Time: Each of the operations should take O(1) time.
  - Extra space: O(k)
    'k' is the size of the circular queue.

Question 6:

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

Question 7:

- **Problem link**:https://leetcode.com/problems/132-pattern/
- **Difficulty level**: Medium
- **Expected Complexity**:
  - Time: O(n)
  - Extra space: O(n)

Question 8:

- **Problem link**: https://leetcode.com/problems/maximum-frequency-stack/
- **Difficulty level**: Hard
- **Expected Complexity**:
  - Time: Each of the operations should take O(1) time.