# Stack Coding Interview Questions

## Easy Level

* 1. Implement a Stack using an array.
* 2. Design a Stack that supports push, pop, and retrieving the minimum element in constant time.
* 3. Write a function to reverse a string using a Stack.
* 4. Implement a Stack using two queues.
* 5. Check for balanced parentheses in an expression using Stack.

## Medium Level

* 1. Sort a Stack using recursion.
* 2. Implement a Stack to evaluate postfix expressions.
* 3. Design a Stack that supports push, pop, and retrieving the maximum element in constant time.
* 4. Implement a Stack to check for duplicate parentheses in an expression.
* 5. Design a Stack to perform basic calculator operations.

## Hard Level

* 1. Implement a Stack to find the next greater element for each element in an array.
* 2. Design a Stack to perform the 'Stock Span Problem'.
* 3. Implement a Stack to find the largest rectangle in a histogram.
* 4. Solve the 'Maximal Rectangle' problem using Stacks.
* 5. Design a Stack to handle a custom operation for advanced parenthesis matching.
* 6. LeetCode 20: Valid Parentheses.
* 7. LeetCode 155: Min Stack.
* 8. LeetCode 225: Implement Stack using Queues.
* 6. LeetCode 739: Daily Temperatures.
* 7. LeetCode 456: 132 Pattern.
* 8. LeetCode 946: Validate Stack Sequences.
* 6. LeetCode 84: Largest Rectangle in Histogram.
* 7. LeetCode 85: Maximal Rectangle.
* 8. LeetCode 768: Max Chunks To Make Sorted II.