

List of Lab Experiments related to the stack

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Note: Students need to complete it in the scheduled lab itself. Also, students need to explain the algorithm and code using whiteboard in the lab; students may call randomly.

- 1. Implement a Stack Using Arrays/Lists:** Write a function to implement a stack using an array or list with basic operations: push, pop, peek, and isEmpty. [[Read the Idea](#)] [[LeetCode-Do the program](#)] [[GFG-Do the Program](#)]
- 2. Implement a Stack Using Linked List:** Write a function to implement a stack using a linked list with basic operations: push, pop, peek, and isEmpty. [[Read the Idea](#)] [[LeetCode-Do the program](#)] [[GFG-Do the Program](#)]
- 3. Check for Balanced Parentheses:** Write a function to check if a string containing parentheses is balanced. [[Read the Idea](#)] [[LeetCode-Do the program](#)] [[GFG-Do the Program](#)]
- 4. Evaluate Postfix Expression:** Write a function to evaluate a given postfix expression. [[Read the Idea](#)] [[LeetCode-Do the program](#)] [[GFG-Do the Program](#)]
- 5. Next Greater Element:** Write a function to find the next greater element for each element in an array. [[Read the Idea](#)] [[LeetCode-Do the program](#)] [[GFG-Do the Program](#)]

[Acknowledge: GFG and LeetCode, Thanks!]