Stack, Queue and Heap

Basic Level Questions:

Stack:

- Implement a Stack Class with the following methods:
 - o push()
 - o pop()
 - o peek()
 - o empty()
 - o search()

[Follow here: https://www.geeksforgeeks.org/stack-data-structure-introduction-program/]

• Reverse a String using Stack

[Follow here: https://www.geeksforgeeks.org/stack-set-3-reverse-string-using-stack/]

Check the expression has valid or Balanced parenthesis or not.

[Follow here: https://www.geeksforgeeks.org/check-for-balanced-parentheses-in-an-expression/]

• Implement two Stacks in an array

[Follow here: https://www.geeksforgeeks.org/implement-two-stacks-in-an-array/]

Queue:

- Implement a Queue class(using arrays) with the following methods:
 - o enqueue()
 - o dequeue()
 - o front()
 - o display()

[Follow here: https://www.geeksforgeeks.org/array-implementation-of-queue-simple/]

• Implement a Circular queue with the same methods in the above problem statement

[Follow here: https://www.geeksforgeeks.org/circular-queue-set-1-introduction-array-implementation/]

• Implement a Deque (Doubly Ended Queue) with insertion and deletion allowed at both the ends.

[Follow here: https://www.geeksforgeeks.org/deque-set-1-introduction-applications/