(1) For a given Stack, the push order with three elements is a, b and c. List all the possible popping sequences for these three elements.
(2) Convert Decimal to Octal using Stack. Write the pseudocode for this function.
For example:
Input: 1348 ₁₀
Output: 2504 ₈
(3) Implement a queue using two stacks. Discuss about how to add and remove element from the queue. Please provide the pseudocode for the add() and remove() operations
(4) For a given graph G, try to find a simple path from node <i>i</i> to node <i>s</i> . Write the pseudocode for this function. Hint: Depth First Traversal