

Stacks

Multiple-choice Questions

1. Stack is a
(a) LIFO (b) FIFO (c) FILO (d) LILO

2. Which function places an element on the stack?
 - (a) Pop()
 - (b) Push()
 - (c) Peek()
 - (d) isEmpty()
3. Disks piled up one above the other represent a
 - (a) Stack
 - (b) Queue
 - (c) Linked List
 - (d) Array

2. _____ is used in a non-recursive implementation of a recursive algorithm.

4. Underflow takes when _____.

- 6.** Whenever there is a pending operation to be performed, the function becomes _____ recursive.

Queue

Multiple-choice Questions

1. A line in a grocery store represents a
 - (a) Stack
 - (b) Queue
 - (c) Linked List
 - (d) Array
2. In a queue, insertion is done at
 - (a) Rear
 - (b) Front
 - (c) Back
 - (d) Top
3. The function that deletes values from a queue is called
 - (a) enqueue
 - (b) dequeue
 - (c) pop
 - (d) peek

Program Question:

Please write a C program that implements a queue using two stacks, where the stacks are represented by linked lists.