

Stacks

Goal: Can implement a stack using an array and a linked list

Problem Description

You will be creating two stack classes. One implemented with an array and one with a linked list.

- You can use your generic node class for the linked list implementation or create a new class.

Driver Class

Create a driver class to test your stacks.

LinkStack Class

Use the following UML to create a linked list implementation of a stack.

LinkStack<E>
-top:Node<E>
+LinkStack() +push(E):void +pop():E +peek():E +isEmpty():boolean

ArrayStack Class

Use the following UML to create an array implementation of a stack.

ArrayStack<E>
-data:Object[] -top:int
+ArrayStack(int) +push(E):void +pop():E +peek():E +isEmpty():boolean