Stack-ADT

Stack ADT allows all data operations at one end only. At any given time, we can only access the top element of a stack.

This feature makes it LIFO data structure. LIFO stands for Last-in-first-out. Here, the element which is placed (inserted or added) last, is accessed first.

Basic Operations of Stack

➔ push(item) - Adds a new item to the top of the stack.returns nothing.

➔ pop() - Removes the top item from the stack. It needs no parameters and returns the item. The stack is modified.

➔ peek() - Returns the top item from the stack but does not remove it. It needs no parameters. The stack is not modified.

➔ isEmpty() - Tests to see whether the stack is empty. It needs no parameters and returns a boolean value.

➔ size() - Returns the number of items on the stack. It needs no parameters and returns an integer.