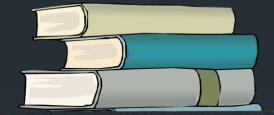
Stacks

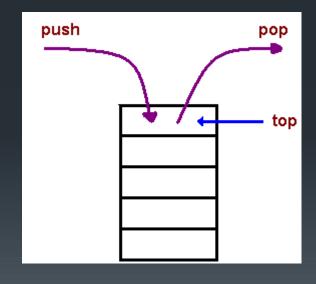
Definition

- The stack is a list-like structure in which elements may be inserted or removed from only one end.
- While this restriction makes stacks less flexible than lists, it also makes stacks both efficient and easy to implement.
- LIFO = Last-In, First-Out



Elements and Operations

- The accessible element of the stack is called the top element.
- Elements are not said to be inserted, they are pushed onto the stack. When removed, an element is said to be popped from the stack.



- A stack grows if a single node is inserted into its top position. No way of assigning values directly to stack nodes is available in a pure stack. The formal operation that inserts a node into a stack is PUSH.
- The top node must be removed from a stack before the values of other nodes can be retrieved.

Example

