Stack Using Singly Linked List CodeStudio

- **Node** Class: Represents the individual nodes of the linked list. It stores an integer value and a pointer to the next node.
- **Stack** Class: Implements a stack using a linked list. It has member functions to perform stack operations.
    - **isEmpty()**:
        - Checks if the stack is empty by verifying if the **top** pointer is null.
        - **Time Complexity: O(1)**
        - **Space Complexity: O(1)**
    - **push(int value)**:
        - Adds a new node with the given value to the top of the stack.
        - **Time Complexity: O(1)**
        - **Space Complexity: O(1)**
    - **pop()**:
        - Removes the top element from the stack.
        - **Time Complexity: O(1)**
        - **Space Complexity: O(1)**
    - **getTop()**:
        - Returns the value of the top element without removing it.
        - **Time Complexity: O(1)**
        - **Space Complexity: O(1)**
    - **getSize()**:
        - Calculates the number of nodes in the stack.
        - **Time Complexity: O(n)**
        - **Space Complexity: O(1)**
    - Destructor **~Stack()**:
        - Deletes all nodes in the stack, freeing up memory.
        - **Time Complexity: O(n)**
        - **Space Complexity: O(n)**