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HW2

LinkedList stack

Stack linked list almost identical with stack array. We first override the base class stackADT, and write our own class linkedStackType, that we inherited from stackADT. We set the top of the stack at the beginning to be 0 or empty, because we want to add element to an empty stack. isEmptyStack and isFullStack is used to check if the stack is full or empty. It is very useful when we want to print out the elements of the stacks. The next function is initializeStack which we used to re-initialize the stack to an empty stack and delete the old stack so from memory so that we don't have any memory leaks. The Push function is used when we want to add element to the new stack by creating another node and pointing the current node to the new node. Pop function is used when we want to retrieve or remove the top of the stack. We can only pop the top of the stack and cant pop the middle or the bottom of the stack. The copy stack is used when we want to copy a current stack that we have filled with some elements to another stacks. Copy stack using deep copy.