

## Prelab 10 for Friday After Spring Break

For this prelab you will implement Stack ADT functions using (building on) the List ADT of prelab 9. Every function except deleteStack should take only a constant amount of time, i.e., not proportional to the length of the list. Returned error codes should be either 0 = *no error* or 1 = *error*.

```
/* This function returns an empty list. Parameter is a reference to an error code. */  
Stack initEmptyStack(int *)
```

```
/* This function pushes the user's object onto the stack. */  
Returns error code. */  
int push(void *, Stack)
```

```
/* This function pops from the stack. NULL is returned if the stack is empty. */  
void * pop(Stack)
```

```
/* This function returns the number of objects on the stack. */  
int getStackSize(Stack)
```

```
/* This function deletes the Stack and returns an uninitialized stack. */  
No operations can be performed on deleted stack. */  
Stack deleteStack(Stack)
```

This prelab reinforces the value of the building-block concept of software development. If this concept is fully grasped, this prelab should take very little time to complete.



Student completing Prelab 10 during spring break in 2023.