Test Cases

Class Name	Contains	Pass/Fail
Unsorted List	Public: GetLength PutItem PrintList GetItem IsFull DeleteItem MakeEmpty Quit Private: Max Limit (100) Length of List(Dynamic) The List	Pass

Functions	Steps	Expectations	Pass/Fail
GetLength	1. Enter Filename(s) 2. Enter 'GetLength'	Get Length of the unsorted list	Pass
PutItem	1. Enter Filename(s) 2. Enter 'PutItem' 3. Enter the item to be inputted	Input items in the list while increasing the length of the list	Pass
PrintList	1. Enter Filename(s) 2. Enter 'PrintList'	Print each value of the list one by one with a space between each values	Pass
GetItem	1. Enter Filename(s) 2. Enter 'GetItem'	Finds the exact value in the unsorted list.	Pass

	3. Enter the Targeted Item	Outputs informs if the value is found	
IsFull	1. Enter Filename(s) 2. Enter 'IsFull'	The max limit for the list is 100. The command will check if the length of the list is equal to 100 and return either 'yes' or 'no'	Pass
DeleteItem	1. Enter Filename(s) 2. Enter 'DeleteItem' 3. Enter the item to be deleted	Search for the value in the unsorted list and if it matches, remove the item. Then shorten the length of the list	Pass
MakeEmpty	1. Enter Filename(s) 2. Enter 'MakeEmpty'	Shortens the unsorted list to 0 in length. Automatically, deleting everything in the list.	Pass
Quit	1. Enter Filename(s) 2. Enter 'Quit'	It will jump out of the file you were in. Therefore quitting your file.	Pass

Logic Description

Functions:

       For this assignment, we want to approach the functions first then the Class and Main. We start with the functions that use a XOR Gate to return a value; *IsFull, GetIttem.* These functions will return a 'yes' or 'no'.

       Next, we should look into functions that don't require the command and the Target. These will be *GetLength, PrintList, MakeEmpty,* and *Quit.* They are commands that go straight to an action.

       Lastly, I believe these to be what we will struggle with implementing because it needs to be called, a user's input for a target, search for the item, and perform an action; *PutItem* and *DeleteItem*. It will be harder than *IsFull* and *GetItem* because although *IsFull* and *GetItem* checks based on the user's input, there isn't any further action to be performed while with *PutItem* and *DeleteItem* there is.

Class:

       The class name will be Unsorted List. The Functions will be under Public section while the Private will contain the max Limit(*IsFull* needs this to work), length(Will be changing if values are added into the list), and the list itself.

Main:

The Requirements for the user to do anything is to get a user's input. We need a user's input for an input file, output file, and the test run. This will be done in main and externally, a document. Once that is done, we will transfer the instructions(commands) to be performed in the output file.