

List Homework

Create a program with the following features:

Part 1: Enter Integers

1. A button and a text box to enter an integer.
2. Verify that it is a valid integer.
3. Add it to a list of integers.
4. Declare the list at the class level so it can be accessed by the other click event handlers.

Part 2: Display List of Integers

1. A button and a list box to display the integers.

Part 3: Remove Integer

1. A button and a text box to remove an integer by its value.
2. Display an error message if needed.

Part 4: Insert Integer

1. A button and a text box to insert an integer into a specified position in the list.
2. Display an error message if needed.

Part 5: Search for Integer

1. A button, text box, and label to search for an integer.
2. Display the integer or a not found message in the label.

Part 6: Sum of Integers

1. A button and a label to display the sum of the integers.

Part 7: Read Integer File

1. A button to read a user-selected text file of integers and add them to the list.

Part 8: LINQ Search

1. A text box and button to perform a LINQ search and display the results in the list box.

Part 9: Save LINQ Results

1. A button to save the LINQ search results to a file.