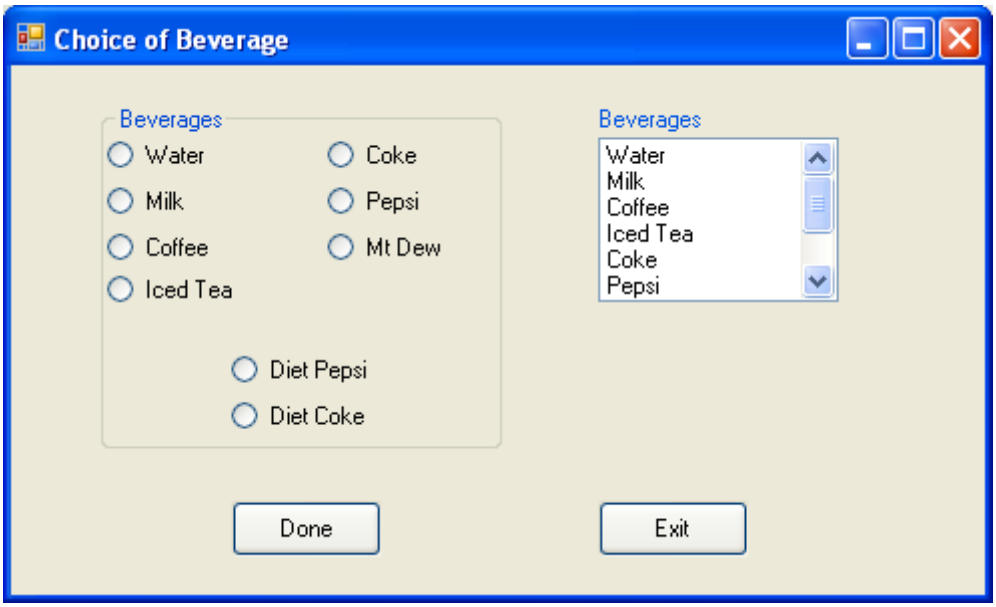
Name:_____

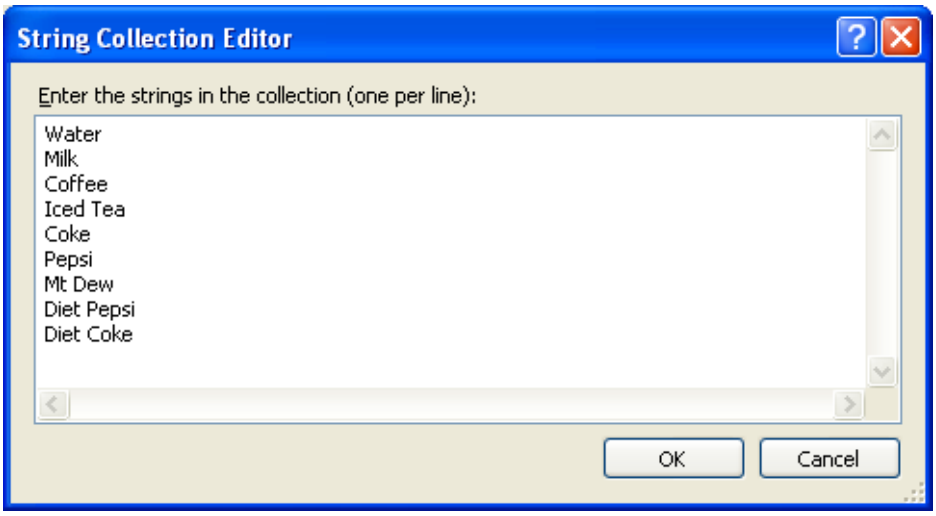
1. From the users point of view a ListBox functions a lot like a group of radio buttons since both allow the user to select a single item. For example, the following application shows both ways to select a beverage:



a) From a usability point of view, when would a ListBox be a better choice that an group of RadioButtons?

b) From the programmer's point of view, the choices of a group of radio buttons must be known when the application is being developed, because each RadioButton must be created and positioned in the group box. A ListBox can be populated with items in one of two ways:

- by the programmer when the application is being developed using the String Collection Editor dialog box:



(Opened automatically when you click on the "..." of the Items property of the ListBox)

- dynamically by the program itself when it executes

When would having the program dynamically build the list of items be a better way to write the program?

3. The ListBox's Items property itself has properties and methods to aid in its dynamic (at run-time) manipulation.

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Example	Description
`lstMyListBox.Items.Count`	Property that contains the number of items currently in the ListBox
`strItemName = lstMyListBox.Items(2).ToString()`	Each item in the ListBox has an index value from 0 to (Count-1). Here, we access the third item (at index 2) and convert it to a string before assigning it to a string variable.
`intIndex = lstMyListBox.Items.Add("Wine")`	Adds a new item to the end of the Items list, and returns the index of where it is added. Any type of item can be added to a ListBox.
`lstMyListBox.Items.Insert(3, "Beer")`	Adds a new item at index 3 in the ListBox.
`lstMyListBox.Items.Remove("Coke")`	Removes a specified item from the ListBox
`lstMyListBox.Items.RemoveAt(4)`	Removes the item at index 4 from the ListBox
`lstMyListBox.Items.Clear()`	Removes all the items from the ListBox
`If lstMyListBox.Items.Contains("Coke") Then`	Checks to see if an item is in the ListBox
`intIndex = lstMyListBox.Items.IndexOf("Iced Tea")`	Returns the position of the item specified or -1 if it is not found.

a) What do you suppose would happen if you tried to access the third item of a ListBox (e.g. `strItemName = lstMyListBox.Items(2).ToString()`) that only had two items?

4. The ListBox has other useful properties besides the Items property. Some them are:

Property	Description
SelectedIndex	Contains the index of the user selected item, or -1 if none has been selected.
SelectedItem	Contains the actual item selected by the user.
Sorted	Contains True if the Items in the ListBox are to be displayed in alphabetical order. If it is False, display the items in the order the list.

a) If the ListBox from question 1 is called lstBeverageChoice, what code would you write for btnDone to change lblListBoxChoice to display the user's ListBox selection?