## Assignment

Deitel \& Deitel Exercises 21.18, 22.4

HW12-1: (Deitel \& Deitel Exercise 21.18)
21.18 (Bucket Sort with LinkedList<int>) In Exercise 18.7, you performed a bucket sort of ints by using a two-dimensional array, where each row of the array represented a bucket. If you use a dynamically expanding data structure to represent each bucket, you do not have to write code that keeps track of the number of ints in each bucket. Rewrite your solution to use a one-dimensional array of LinkedList<int > buckets.

HW12-2: (Deitel \& Deitel Exercise 22.4)
22.4 (Display Query Results App Modification) Modify the app in Section 22.6 to contain a TextBox and a Button that allow the user to perform a search of the book titles in the Titles table of the Books database. Use a Labe1 to identify the TextBox. When the user clicks the Button, the app should execute and display the result of a query that selects all the rows in which the search term entered by the user in the TextBox appears anywhere in the Title column. For example, if the user enters the search term "Visual," the DataGridView should display the rows for Simply Visual Basic 2010, Visual Basic 2012 How to Program, Visual C\# 2012 How to Program and Visual C++ 2008 How to Program. If the user enters "Simply," the DataGridVi ew should display only the row for Simply Visual Basic 2012. [Hint: Use the Contains method of the String class.] Also, provide a Button that enables the user to return to browsing the complete set of titles.

## Grading Rubric

Each problem is worth 10 pts (score will be recorded as a percentage of that amount)
10\% Properly submitted
10\% Properly named
20\% Adequate comments
10\% Runs
20\% Produces correct output
$30 \%$ Effort evidenced by the submitted work

