CIS 1400: Programming and Logic Technique Lab Assignment

Lab Assignment	#9 – Algorithms	
Due Date	11/12/2012	
(beginning of class)		
Points	Multiple Choice	/ 10 pts.
	Search of Sorted Names (attach hardcopies)	
	Flowchart	/ 25 pts.
	VB Program	/ 15 pts.
	Total	/ 50 pts.

Lab Assignment #9 Activities

Name:

1. Answer the following **Chapter 9 Multiple Choice Review Questions** on pages 353 to 355 of your textbook. *(5 points)*

Question Number	Your Answer
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

- 2. Design a program to solve Chapter 9 Programming Exercise 2 (Sorted Names) combined with Chapter 9 Programming Exercise 4 (Name Search) on page 371 in your textbook with the following additional program requirements:
 - Program functionality should execute as follows:
 - Create an array of 20 names that is populated with values from the data file names.dat. The data file can contain more or less than the number of array elements.
 - o **Sort** the array of 20 names in ascending order.
 - Display the sorted list of names to the user with a descriptive message.

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- Prompt the user to enter a name to search and use the search name to determine if it is in the array of names.
- If the name is found in the list, identify the ordered number (in the array) of the user requested name. If the name is not found in the list, display an error message indicating the name is not in the list.
- Include **modules** (at least) to do the following:
 - Read data from file into names array
 - Sort names array
 - o Display the names array
- Include functions (at least) to do the following:
 - Search the names array for a given name and return the index of found, -1 otherwise
- a) Use a software application to create the flowchart and attach it to this lab coversheet (be sure to label the hardcopy with your name, date, class, and lab assignment number). (25 points)
- b) Create the Visual Basic source code that represents the pseudocode requirements from the previous step. The VB source code must have the following for full credit:
 - Program header comments that include your name, date, class, and short problem description
 - End of program comments that include output from sample program run

Attach a copy of your source code to this lab coversheet. (15 points)