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| **CS 1400 Lab #9**  **Coding the Farmer John Program**  **Version 1.0**  **Objectives:**  After completing Lab #8 you should understand how to use Pseudo-Code as a tool to begin to solve a programming problem. In this lab you use the Pseudo-Code to aide you writing your C# code.  **Study Material**  Be sure that you are familiar with the slides for this week, ***Programming By Example****.* Study the example shown in the slides thoroughly. Be sure that you understand the steps required to design and implement a program.  In Lab #8, you started a project for the Farmer John problem. In that Project, you created a source code file and in the Main method you placed your Pseudo-Code, that you developed to solve this problem.  **Writing the Program**  To copy your Pseudo-Code, click-on File/Open/File/Lab\_08/Program.cs. Create the Project for Lab\_09 and paste a copy of your Pseudo-Code in the appropriate place in this project. Now, below each line of Pseudo-Code that you copied, fill in the C# code that will accomplish the task(s) required by that line of Pseudo-Code. After you have completed all of the coding, compile, debug and run your program. Use the test values from your Algorithm Design Worksheet to test your program. Refactor your code as required and when you are satisfied that your program works correctly, submit the code as explained below.  **File(s) to Submit:**  Place your ENTIRE Project folder into a zip file and name the zip file Lab\_09\_your-initials\_V1.0.zip, NOTE your Project File will still be named Lab\_08. For example, I would name my file Lab\_09\_DAF\_V1.0.zip. Submit this assignment as Lab #9 on Canvas. |

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|  | **Grading Guidelines** |  |
| # | Program | **C**orrect | **X**not-correct |
| 1 | Meets & works to specifications | 6 points |
| 2 | Error Free, elegant & efficient | 4 points |
| 3 | Pseudo-Code | -3 points |
| 4 | Style Guidelines | -2 points |
| 6 | Source Files(s) & Formatting | -2 points |
| 7 | Project Prolog | -1 points |
| 8 | Function Prologs | -1 points |
| 9 | Zip Filename | -1 points |
| 10 | Lab & Project Names | -1 points |
| 11 | Zip File is invalid or will not unzip | Lab = 0 pts |
|  | Total Points | 10 | 0-9 |