PROG 113 Project #5
25 points Chapter 13: Advanced File and I/O Operations

General Instructions:

This is an open book project. You may receive assistance or help from anyone, including me, regarding the ***concepts only***. Therefore, you must do your own work on the program solution and not utilize anyone else with your code development. If you are approached by another student to supply him or her with your solution, you must decline their request. When you have finished, you must zip your solution into a zip folder that includes the files described below and upload the folder via the Canvas upload feature.

You have seven (7) days to complete this assignment.
Do not wait until the last day to start your work!

Specific Instructions:

Do the following problem from *Programming Challenges* at the end of Chapter 13 of the textbook. The problem and page number are from 8th edition of textbook for this class. If you do not have this edition, you need to refer to it to make sure you are attempting the correct problems.

Chapter 13, Problem #3: *Punchline* (page 894) 25 points

For this project, you ***must*** search for the punch line from the ***end*** of the punchline file. You may use the supplied C++ project file to start your project. Also, a joke file and punchline file are supplied to test your program. Place these two files in your Visual Studio *Project* folder so that you do not need to supply the full path name, just the file names.

- When implementing each required method, ensure that the stream object's error flags are cleared before processing the file contents.
- Consider using the `seekg` method specifying the "place" with the `ios::` flags `cur` and `end`. Be aware that if you use the `get()` method to remove a single character from the file, this advances the file read pointer by 1 position towards the end of the file.
- You may assume that all file lines end with the new line character, `\n`, *except* for the punch line, line (done to make the code simpler). You may use the *string* class method `getline` to extract a single line from the files into a *string* object.

Comment your code to include: (1) Course Name, Program Name, File Name, Date, Programmer Name, and *Method Description*, and (2) General comments throughout the source code.

Project Submission:

Using the Canvas Assignment upload feature, submit a Zip formatted file (*.zip) named ***Lastname*Project5zip** that include the following files:

- **Source Code file (*.cpp), and Executable file (*.exe).** You do **not** need to include any additional project files.
- A **text file or Word document**. Use one of the template Project Summary documents I have provided on the Canvas site.
    1. What does or doesn't work and why
    2. Any additional functionality reasons or excuses for missing functionality.
    3. What you learned and what you found difficult or unclear about the problem.