

Lab 14: End of File (EOF)-controlled loops**Due:** 11/02/22

In this lab you will practice using an End-Of-File while loop to perform repetitive tasks.

EOF-controlled while loops are a special case of flag-controlled while loops. When the end of a file is reached, the end of file flag is set to true. The example program demonstrates how to test the end of file flag.

Example Program: EOF-Controlled while loops

The example program for EOF-controlled while loops reads a series of numbers from an input file and finds the average of those numbers. The **eof-while-numbers.cpp** program provided illustrates the skills you are learning in this lab. Open it in your IDE, read and understand the code and finally run the program with different inputs to see how it works.

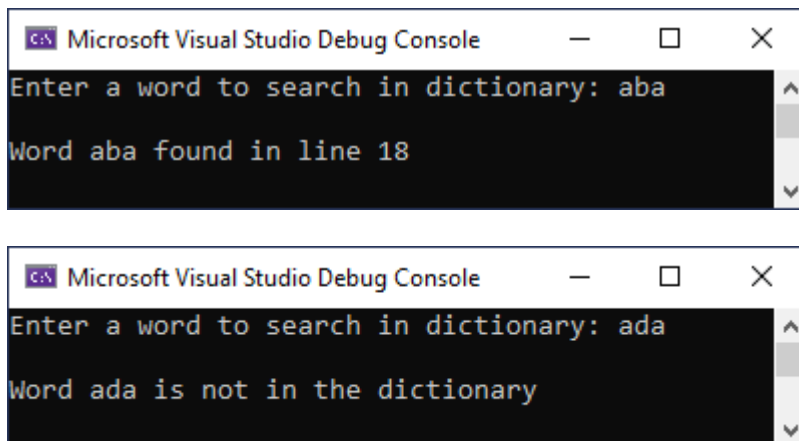
Your Program

For your program you will search a dictionary file for the word provided by the user. First ask the user to input a word. Search the dictionary file for that word and tell the user whether the word was found.

This program demonstrates the linear search technique. When you perform a linear search, you start at the beginning of a list and search through the list in order until you reach the desired item or the end of the list (**Hint** - use break to stop the program when you find the desired item). Linear search is very inefficient, and we will learn about better search techniques later in the semester.

Open **lab14.cpp** in your IDE and implement the algorithm provided in the source code as comments. Use the provided dictionary file **dictionary.txt** to test your program.

Sample runs of my program



```
Microsoft Visual Studio Debug Console
Enter a word to search in dictionary: aba
Word aba found in line 18

Microsoft Visual Studio Debug Console
Enter a word to search in dictionary: ada
Word ada is not in the dictionary
```

I am posting my solution for your reference. Please run your program as many times as necessary to ensure that you tested it thoroughly. Make sure it behaves like my sample solutions.

<https://replit.com/@GDietrich/1370-lab14sample>

If you have concerns or specific questions, post them on the Discussion Board of Blackboard. Don't forget to include at the top of the programs, the comments shown below with your information (name, class and section number, etc.)

```
////////////////////////////////////  
//  
// Name: <Put your name here>  
// Date: <Today's date>  
// Class: <Your class number and section number, like: CSCI 1370.02>  
// Semester: <This semester, like: Spring 2012>  
// CSCI 1370 Instructor: <Your lecture instructor's name>  
//  
// Program Description: Enter here your description of what the program does  
//  
////////////////////////////////////
```

When done, submit your solution through Blackboard using the “Assignments” tool. Do Not email it.

Paste the [link](#) to your solution and the [source code](#) in the textbox corresponding to Text Submission (click on the [Write Submission button](#)) before you click on Submit.

The following is the basic criteria to be used to grade your submission:

You start with 100 points (each is worth 50 points) and then lose points as you don't do something that is required.

- 40: Program doesn't compile
- 30: Program doesn't run to completion
- 20: Doesn't stop getting input when end of file is reached
- 10: Doesn't properly open input file (for example, doesn't check if it was opened)
- 10: Doesn't properly close input file
- 10: Doesn't properly handle case when word is found
- 10: Doesn't properly handle case when word is not in dictionary
- 5: Missing comments at the top of the program
- 20: program does not implement the provided algorithm
- 20: Incorrect/missing source code
- 20: or incorrect/missing link to your Repl.it solution
- 100: The code submitted is not your creation (you got it from a web site or another person)
- 10: Late

Note: more points may be lost for reasons not specified here.