Question 1.

<https://www.jetbrains.com/help/clion/run-debug-configuration-application.html> was used to setup the configuration for clion debugging. It showed me that there was a configuration option under debugging that allowed me to input arguments.

<https://stackoverflow.com/questions/10926858/can-i-debug-a-pointer-as-array> showed me that I could edit a watched variable in a way that showed the contents of the array. This was accomplished by using brackets.

Lt Col Sarmiento assisted me with reading in the words to an array. She showed me that the reason the array after index 8 was no longer null was due to the allocated space not being large enough. This was due to the use of sizeof(int) instead of the struct that was being used. After I changed this portion the program ran successfully.

Question 2.

In PEX1.c there was a syntax error on line 199:24 that was fixed by changing the file name variable to a pointer (File \*filePtr = NULL;).

Question 3.

In PEX1.c there was a warning on line 109 for the variable 'i' not being initialized, which was fixed by initializing to 'i = 0'.

In PEX1.c there was a warning on line 376:9 for an implicit declaration of function 'BuildWordCloud.' The error was fixed by adding #include "WordCloud.h" at the top of the file.

There was a run-time error in the PEX1.c file on line 126. The allocated size for the array was using a sizeof(int), which did not allow for the word and the count for each word. To fix this the sizeof was changed to sizeof(WordCount), which is the struct that was being used.

Question 4.

In PEX1.c there was a logic error on line 29 where the charBuffer[MAX\_WORD\_LENGTH] utilized a size that was too small for the words being read. The fix was to change the MAX\_WORD\_LENGTH to 20 and the MAX\_WORD\_LENGTH\_STRING to "20" on the PEX1.h.

Question 5.

The '#pragma once' directive, according to gcc.gnu.org, is read once when the header file is intially scanned. At no point afterwards will it be read again, which helps to safeguard the header file. (<https://gcc.gnu.org/onlinedocs/cpp/Pragmas.html>)

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