Reading From/Writing To Files Assignment

Assume that in1.txt and in2.txt are files each containing 10 lines of words, one word per line (and with each word beginning its line), with the words in each file appearing in alphabetical order. Write a Python program that outputs to a file out.txt as follows (all of the outputs described are to this file). First, the program outputs the string "Short words in in1.txt", overwriting anything that might have previously existed in out.txt. The program then outputs to out.txt all of the words of at most four characters from in1.txt, one word per line with no intervening blank lines. Then the program outputs a blank line and the string "Short words in in2.txt" followed by the words of at most four characters from in2.txt. Next, the program outputs a blank line and the string "Merge of all words". Finally, the list of all of the words (of any length) from both files, in alphabetical order, should be output.

Do not use Python lists to solve this problem. Instead, I expect that you will be reading from the input files several times, opening and closing them as needed, in order to accomplish the above tasks.

Note: After the `close()` function is called on a file used for input, the next time the file is opened, the first subsequent `read()` will be applied to the beginning of the file.

Grading

5: Program runs and conforms perfectly with specifications above
4: Program runs and is mostly correct but deviates from the above specification in one way
3: Program runs and is mostly correct but deviates from the above specification in two ways
0: Program does not run or deviates from the above specification in three or more ways