

The Problem(P14 E8)

You are given two words and you have to sort them according to the alphabetical order. To determine which of the two words comes first in alphabetical order, their first letters are compared. If they differ, then the word whose first letter comes earlier in the alphabet comes before the other word. If the first letters are the same, then the second letters are compared, and so on. If a position is reached where one word has no more letters to compare while the other does, then the first(shorter) word comes first in the alphabetical order.

Note: Assume the two words contains lower case letters.

Develop a Python program to sort given two words according to the alphabetical order without using any inbuilt Python functions such as “**sort ()** or **sorted ()**”. The input will be a file containing two words separated by a space. The output should be the two words in the sorted order, separated by a space, displayed on the screen and also written to a file “**Output.txt**”

Special requirement: You must define at least 2 functions and use them in your code.

Format:

Input: name of input file

(the input file will contain two words, separated by a space)

Output: Display on screen and write to the output file “Output.txt” the sorted two words according the alphabetical order. They should be separated by a space.

Sample:

Case 1

Input: test_data1.txt
Content: olivera hanlon

Output: Output.txt and on screen
Content: hanlon olivera

Case 2

Input: test_data2.txt
Content: xanthate xanthan

Output: Output.txt and on screen
Content: xanthan xanthate