

COP 3330 Suggested Exercises for File Input

File Input

1) The following directory stores four files related to a programming contest problem (the description, test input file, matching output, and solution). The solution was coded reading input from standard input and it was tested on the command prompt utilizing file redirection. Rewrite the code to directly read from the file "sorting.in" and produce the output to standard output. Here is the directory:

<https://www.cs.ucf.edu/~dmarino/ucf/introjava/SortingStudent/>

2) Update your solution to #6 so that it catches a `FileNotFoundException`, if the file to be opened isn't in the current directory. In this case, print a message stating the fact and exit the program.

3) Write a program that reads in a dictionary of words from the file `dictionary.txt`. The format of the file is that the first line contains a single positive integer representing the number of words, then the words follow, one per line. After reading in the dictionary into `TreeMap`, as the user to enter a word to search for. If it's in the dictionary, say so, if it's not in the dictionary, then print out the closest word alphabetically after the string entered by the user and the closest word that comes alphabetically before the string entered by the user (if these exist).

4) Modify #3 to play a simple word game that uses the dictionary to check for validity of words. (One possibility is the game where users go back and forth listing valid words where the next word must start with the letter the last word ended with.)

5) Find data online that is in a text file format and write a program to process that data in some way.