

Coremont Coding Test

Allocated Time: 40 mins

Part A

A dictionary of words is available inside the zip file provided (the filename is *words.txt*). In either Scala or Java write some code to read in that file and find the largest set of words that are anagrams of each other. Where possible try to use a functional style approach in your solution.

Anagrams are words formed by rearranging the letters of a different word. For example “silent” and “listen” or “binary” and “brainy” are anagram pairs.

Part B (Optional)

Only attempt to solve this part if you have completed Part A and have some time remaining.

Using the same dictionary of words as above, solve for the following:

1. Sort each letter in descending order based on the words prefixed with that character.
2. Find the word with the largest number of distinct characters.