Instructions

Please complete the following two exercises using Java. This typically takes about 2 hours to complete. Please write your code in a manner you think is suitable for a professional, production environment.

Each exercise should include a runnable “main” method that can successfully demonstrate the solved problem. When you have completed the two exercises, please deliver the source code by putting it up on a service like GitHub or GitLab.

Thanks for taking the time - good luck!

Exercise 1

Please write a program that can read the contents of any directory (and its subdirectories) in the filesystem, and display the contents sorted in order of file size to System.out. The directory to search should be passed as a parameter to the “main” method of the program.

The output should show the full path of the file, the file name, and the file size.

Exercise 2

An anagram is a type of word play, the result of rearranging the letters of a word or phrase to produce a new word or phrase, using all the original letters exactly once. In other words, “cat” and “act” would be considered anagrams since they share the exact same letters-- just in different order. Whereas “act” would not be an anagram of “acts” because “acts” has an “s” and “act” does not.

Taking the the list of words below, output all word pairs that are “anagrams” of each other. Please display each anagram word pair to System.out.

Word List:
vase bat gods latte name apres spit joke ham dog act tale parse pits asper tab table mane late god cat table save spare