# Backend/Full-stack programming task

**Timebox:** 30min

**Deliver:** Send a github link or zipped file to [alexander.axelsen@protectorforsikring.no](mailto:alexander.axelsen@protectorforsikring.no) and [enok.eskeland@protectorforsikring.no](mailto:enok.eskeland@protectorforsikring.no)

**Deadline:** 6 hours before your scheduled Technical interview

Attached you will find a text file with a lot of words, 1 word per line, called “words-utf8.txt”.

Your task is to create a small program that’s able to find all the words that has one or several anagrams in the list.

NB,

* Not all words has an anagram
* We are only interested in single-word-anagrams

An anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once. (<https://en.wikipedia.org/wiki/Anagram>)

The result set should list, on each line, all the anagrams present in the attached file.

Example:

akte teak kate

aldri arild

aller ralle

alt tal

andre rande denar ander

The purpose of this task is to understand how you solve logical problems using programming. What is important to you when you code, and how well you are able to explain it. It’s preferrable to use Java as it’s our main backend language at Protector.

During the technical interview you will be asked to present the solution which will form the basis for a part of the conversation.