CS231 Haskell Project 1

Winter 2022

Overview

For this 30 point assignment you will be writing a function, transformDoc, (with a number of helper functions). You will be transforming an input file into an output file with the same results as your last C project produced. Note that this is not system code, you are just producing the functionality of the combination of programs wordGrab, lengthCheck, reverse, and caseWorker. All your work will be done in functions in the haskell file DocTransformer.hs, in which I have written the declaration of function transformDoc, which will transform the String of all input from the input file, and will produce the String to write to the output file after doing the transformation of the input. **Note that none of the functions you write will use the keyword "do".**

Specifics

Your function, transformDoc, will make the following transformations on the input String

1. A word is a sequence of alphabetic characters. All words will end with a newlne character, `'\n'`. This is the same functionality as provided by wordGrab.
2. Any word of any length different from the Int argument provided to the transformDoc function will be removed from the transformed String. This provides the same functionality as lengthCheck.
3. The order of the words in the transformed String will be in reverse of the order they appeared in the input file. That is, the first word in the input file (of the correct length) will be the last word in the transformed String for output. This provides the same functionality as reverse.
4. In all words in the transformed String, vowels will be in lower case while consonants will be in upper case. This provides the functionality of caseWorker.

Deliverables

Put comments in your program telling me who you are and what each function you have written does. Upload your Haskell code in your DocTransformer.hs file to blackboard by 11:59 p.m. on Friday February 25.