CS231 Haskell Assignment 2

Winter 2022

Overview

For this 10 point assignment you will be writing just one function. (If you find it useful to write another function, or more than one helper function, which the function you write will call, that is allowed). Your function will be tested using ghci.

Specifics

Your function will be named wrapInsert and will have the following type:

```
wrapInsert :: a -> [a] -> [a]
```

wrapInsert will separate all elements already in the list from each other by inserting copies of the first argument into the list, which is the second argument of the function. If the list is empty, the value of wrapInsert will be a list with one element, a copy of the first argument. If the list is not empty, the first and last elements of wrapInsert will be the first argument, and every element of the argument list will be surrounded by copies of the first argument. Some examples of how this works follow.

```
wrapInsert 3 [] -- evaluates to [3]
wrapInsert 4 [5] -- evaluates to [4,5,4]
wrapInsert 1 [2,4,6,8] -- evaluates to [1,2,1,4,1,6,1,8,1]
wrapInsert 'r' "ae" -- evaluates to "rarer", remember that a string is a list of char
```

Deliverables

Demonstrate this code in lab on Wednesday February 16. Also, upload your haskell file to blackboard before demonstrating it.

If you are unable to demonstrate this code during lab, submit your code via Blackboard by 11:59:59 on Wednesday February 16, but the maximum score in this case will be 8 points.

Put comments in your program telling me who you are and what each function you have written does. This assignment is worth 10 points if demonstrated in lab, 8 points if submitted without demonstration on Wednesday, 0 points if not submitted by the end of day on Wednesday.