CS 515 Homework 2

Jared Bass

February 2022

Homework 2: Strings and Sequences
Due: 2/9/22 at 11:59pm

Please submit this homework as a single file containing all functions, called hw2.py

Introduction

For this homework, you might need to download and import the cs515.py file from Canvas. Once you've downloaded it, you can import it by typing the following block of code at the top of your Python source file:

from cs515 import [what you need]
If you need only the map function, type this:
from cs515 import map
If you need multiple functions, say map and filter, type this:
from cs515 import map, filter

1 Question 1: Write a name correcting function (33 points)

Write a function correctName(s) which takes in a string s in the following format: 'firstname lastname'. Return a new string, where the first character of the first and last name are capitalized, and the rest are lowercase.

```
correctName('jared bass') -> 'Jared Bass'
correctName('FRANKLIN SHACK') -> 'Franklin Shack'
correctName('jOE sMITH') -> 'Joe Smith'
```

2 Question 2: String Editing (33 points)

Write a function stringShortener(s,n) which, given a string s and a number n, returns a new string that is only, at most, the first n characters of s.

```
stringShortener('jared bass', 4) -> 'jare'
stringShortener('franklin', 100) -> 'franklin'
```

3 Question 3: List manipulation (33 points)

Write a function called changeList(L, n) which takes a list L and an index n and returns a list with the item at index n also included at the end. You can assume n is in the range 0 <= n < len(L).

```
changeList([1,2,3,4,5], 0) -> [1,2,3,4,5,1]
```

Again, please submit this homework as a single file containing all functions, called hw2.py