

COMP 2100 Homework #3
Fall, 2022
Prof. Stucki

Please refer to the syllabus for formatting standards for your homework.

Complete the following exercises:

Section 1.5, (p. 235-240)

- 1.5.1
- 1.5.2
- 1.5.3
- 1.5.13

Recursion

- Write a recursive algorithm that adds the values of a linked list of integers.
 - For example, the input list [1,2,3,4,5] would produce the value 15.
- Write a recursive algorithm that doubles the value of every odd number in a linked list of integers.
 - For example, the input list [1,2,3,4,5] would modify the list to be [2,2,6,4,10]
- Write a recursive algorithm that determines whether a string is a palindrome.
 - For example, the input 'racecar' would produce true, but the input 'banana' would produce false

DUE: Friday, September 23