



05. APRIL 2023

ALGORITHMS AND DATA STRUCTURES ASSIGNMENT 3

Submission deadline for the exercises: 11. April 2023

3.1 Linked List

- a) Implement the method `reverse()` of the class `LinkedList` provided in the `linked-list.py` file. The implementation should update the existing list in-place by updating the `head` attribute of the `LinkedList` and the `next` attributes of the `Nodes`.
- b) Implement the method `new_reversed_list()` of the class `LinkedList` provided in the `linked-list.py` file. The implementation should return a new `LinkedList` instance with reversed ordering. The original `LinkedList` should not be modified.
- c) Implement the method `append_list()` of the class `LinkedList` provided in the `linked-list.py` file. The implementation should append a copy of a given `LinkedList` to the current `LinkedList`. The original `LinkedList` should not be modified.

Don't forget to test your methods!