

Complementary Exercises

1. Write a **multiReverse** function that creates multiple sublists from an initial list. The sublists are created by reversing N elements from the received list. For example, consider the list $L = \{2, 9, 7, 5, 10, 15, 6, 12, 3, 11\}$ with 10 elements and the number of elements to invert, $N = 3$. The original list L will be divided into the following sublists: $L1 = \{7, 9, 2\}$, $L2 = \{15, 10, 5\}$, $L3 = \{11, 3, 12, 6\}$. If the remaining elements of the original list division are less than N, they will be added to the last list.

The sublists are returned in a map container that holds the <list, sublist> pairs.

```
Map<Integer, LinkedList<Integer>> multiReverse (LinkedList<Integer> list, Integer n)
```

2. The goal is to simulate a warehouse in which operates a forklift whose mission is to arrange crates of any type. These crates can be overlaid up to a maximum of 5 crates. The stacker only puts one crate on the floor if it can not be placed on top of another crate. The forklift removes a crate from the ground when there are no overlapping crates.
 - a) Define the Warehouse class
 - b) Add to the class the methods:
 1. Stack a crate
 2. Unwrap a crate
 3. Visualize the warehouse