Course: DSA

*Homework 01*

**Linked List**

Given the LinkedList source code folder, students conduct the following tasks.

# Task 1:

Add to **ListInterface** and then implement in **MyLinkedList** the method

**public int getMax()**

which returns the maximum element in the list. If the list is empty, then throw **java.util.NoSuchElementException**

| *Copy and paste source code of* ***ListInterface.java*** *here* |
| --- |

| *Copy and paste the implementation of the designated method here* |
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# Task 2:

Add to **ListInterface** and then implement in **MyLinkedList** the method

**public int sumEven()**

which returns the summation of even elements in the list. If the list is empty, then return 0.

| *Copy and paste source code of* ***ListInterface.java*** *here* |
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| *Copy and paste the implementation of the designated method here* |
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# Task 3:

Add to **ListInterface** and then implement in **MyLinkedList** the method

**public int countKey(int x)**

which returns the number of occurrences of element **x** in the list. If the list is empty, then return 0.

| *Copy and paste source code of* ***ListInterface.java*** *here* |
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| *Copy and paste the implementation of the designated method here* |
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# Submission Notice:

* Export your answer file as pdf
* Rename the pdf following the format:

hw01\_<student number>\_<Full Name>.pdf

E.g: **hw01\_123456\_NguyenThanhAn.pdf**

*If you have not been assigned a student number yet, then use 123456 instead.*

* Careless mistakes in filename, format, question order, etc. are not accepted (0 pts).