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**LAB 3 Turing – Report**

**GitHub repository link:** <https://github.com/JuanF2019/linked-lists-turing>

**A. Functional Requirements**

The program should be able to:

1. Read the instructions given in a text document in which each line is a different set of instructions that start on an empty list.
2. Write in a text document the letter corresponding to a Node when reading in the list.

To perform what is stated all 3 heads should be:

1. Able to read the referenced Node, printing in a text document the corresponding letter, or # if they are pointing a null Node.
2. Able to add an element shifting the other Nodes making that the new object corresponds to the position of the head with the new list size. Also, they should adjust the other heads position when necessary.
3. Able to delete an element form the lists shifting the others and adjusting other heads when necessary.
4. Functional at any time, even if the list is empty.

**B. Class Diagram**A screenshot of a cell phone

Description automatically generated