Algoritmos T.P. N° 4 - Juan Cruz Ambrosini

EJERCICIO 2:

from algo1 import \*

from mylinkedlist import\*

class LinkedList:

    head = None

class Node:

    value = None

    nextNode = None

class Employee :

    def \_\_init\_\_(self, name, age, id):

        self.name = name

        self.age = age

        self.id = id

employee\_list = LinkedList()

add(employee\_list, Employee("Luis Esteban", 32, 7))

add(employee\_list, Employee("Eduardo Ángel", 34, 2))

add(employee\_list, Employee("Pedro César", 45, 8))

add(employee\_list, Employee("Luis Esteban", 32, 7))

add(employee\_list, Employee("Pedro Agusto", 40, 9))

add(employee\_list, Employee("Juan Carlos", 23, 5))

add(employee\_list, Employee("Luis Esteban", 32, 7))

add(employee\_list, Employee("Juan Carlos", 23, 5))

add(employee\_list, Employee("Eduardo Ángel", 34, 2))

*#---------------------------------------------------------------*

def showCustomList (lista):

    current\_node = lista.head

    while current\_node != None :

        print("---------------------------------")

        print("Nombre: ", current\_node.value.name)

        print("Edad: ", current\_node.value.age)

        print("Legajo: ", current\_node.value.id)

        current\_node = current\_node.nextNode

*#---------------------------------------------------------------*

def noRepeatsId(listA):

    current\_comparator = listA.head

    current = current\_comparator.nextNode

    counter = 0

    while current\_comparator.nextNode != None:

        while current != None:

            if current.value.id == current\_comparator.value.id:

                counter += 1

                for i in range(0, counter):

                    delete(listA, current.value)

            current = current.nextNode

        counter = 0

        current\_comparator = current\_comparator.nextNode

        current = current\_comparator.nextNode

*#---------------------------------------------------------------*

def insertById(list, employee, before):

    current = list.head

    counter = 1

    while current != None:

        if current.nextNode.value.id == before:

            insert(list, employee, counter)

            break

        counter += 1

        current = current.nextNode

*#---------------------------------------------------------------*

def moveEmployee(list, id\_employee, before):

    current = list.head

    aux\_employee = None

    while current != None:

        if id\_employee == current.value.id:

            aux\_employee = current.value

            delete(list, current.value)

            insertById(list, aux\_employee, before)

            break

        current = current.nextNode

*#---------------------------------------------------------------*

print("///////////////////////////////// LISTA DE EMPLEADOS /////////////////////////////////")

showCustomList(employee\_list)

noRepeatsId(employee\_list)

print("///////////////////////////////// LISTA DE EMPLEADOS SIN REPETIR /////////////////////////////////")

showCustomList(employee\_list)

ernesto\_andres = Employee("Ernesto Andrés", 55, 6)

insertById(employee\_list, ernesto\_andres,7)

print("///////////////////////////////// LISTA DE EMPLEADOS ACTUALIZADA (Hernesto Andrés) /////////////////////////////////")

showCustomList(employee\_list)

moveEmployee(employee\_list, 8, 9)

print("///////////////////////////////// LISTA DE EMPLEADOS ACTUALIZADA (Se cambió de lugar al legajo 8) /////////////////////////////////")

showCustomList(employee\_list)

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