**Exercise 1**

We are interested in this application in the definition of a structure in order to use it as

a type of cells in a singly linked list.

1. Propose a cell type comprising a string of size 10 and two real numbers x and y.

Each cell has a pointer to another cell of the same type.

2. Write a new List function allowing you to create a new empty linked list.

3. Write a list Size function to determine the size of a linked list.

4. Write a function insertElement allowing to insert, in a list, a new

Element at a specific rank.

5. Write a delete Element function allowing to delete, from a list, a

element of a specific rank.

**Exercise 2**

1. Write the functions InsertDeb and InsertEnd which allow you to insert a new

Element at the beginning and end of a doubly linked list of integers.

2. Write a Deleted function that allows you to delete the first element of a

doubly linked list of integers.

3. Write a Delete function that allows to delete an element, determined by

its rank, in a doubly linked list of integers.

4. Write an Insert function that inserts a new element into a list

doubly chained sorted by integers.

**Exercise 3**

Write a function that simply counts the number of elements in a list

circular chain.

Write a function that allows you to enter n integers and create a simply linked list

circular