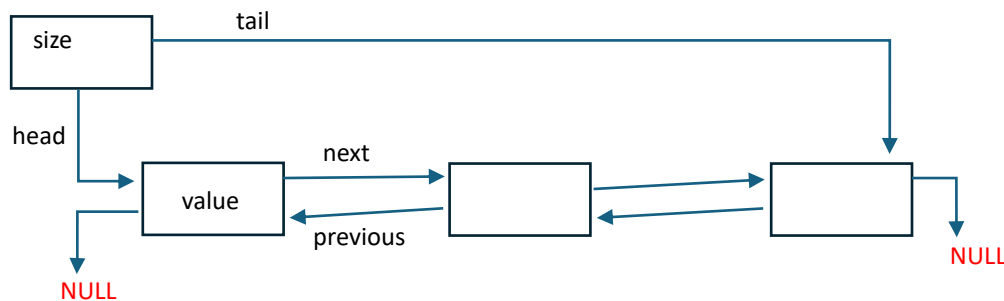# Lab 4 – Linked list

Part 1: Linked List implementation

Please complete the linked list implementation by implementing all functions in the linkedList.c. You can use helper functions if you want, but make sure that you provide to the user only what is necessary. Make sure your implementation does not have any memory leaks! An example of how your linked list should be is shown below.

Part 2: Deque implementation

Please complete the deque implementation by implementing all functions in the linkedList.c. Note that the linked list is the data structure to use for the deque, therefore linked list functions may be the used for the deque implementation. Make sure your implementation does not have any memory leaks!

Part 3: Test cases

Please write test case for your linked list and deque in the linkedListMain.c file. Make sure that you use all the function mentioned in the linkedList.h file. Make sure your program does not have any memory leaks!

Grading (20 pts) :

- 18 x functions – 1 pts each
- Style & Documentation – 2 pts

What to turn in:

- One archive containing linkedList.h, linkedList.c, linkedListMain.c and makefile