



Algorithms & Data Structures

Dr. Sameer M. Alrehaili
srehaili@taibahu.edu.sa

November 10, 2021

Assignment05 **Due Sun 14th Nov 08:00 AM**

1 Problem 1

Consider Singly Linked List algorithm (SSL) in the following URL [Click here!](#).

Write an operation to do counting elements of linked list?, make sure function name is "size"

Listing 1: Counting elements of a linked list

```
// Count the elements of the list
public int size(){
    Node curr = this.head;
    int c=0;
    while(curr != null)
    {
        curr = curr.getNext();
        c++;
    }
    return c;
}
```

2 Problem 2

Write another function to get the last element in the list and call it "Last"?

Listing 2: Getting the last element of a linked list

```
//The following function gets the last node in the list  
public Node Last(){  
    Node curr = this.head;  
    while(curr.getNext() != null)  
        curr = curr.getNext();  
    return curr;  
}
```