**Tania Chowdhury**

**Group\_num:01**

**Team members:**

*Brown,Jacob A  
Chowdhury,Tamzid  
Chowdhury,Tania  
Cortes,Victoria Danyel  
Deciutiis II,James Hugo*

**Question 4:**

Bubble sort has a worst-case and average complexity of О(n^2). So whether it as an array or a linked list on which we apply Bubble Sort the time complexity is O(n^2). But still since we use node in a linked list which occupies aditional space for adress of the next node and after the node swapping we have an addition assignment to adjust the head pointer. More we have two more pointers to two nodes that need to be compared. So bubble sort using linked list is a little less efficient than bubble sort using an array.