Quiz #02

25 March 2019 20 minutes

Name: _____ **Roll No**: _____

Honor Code: By signing below, I am declaring under oath that
I will solve the quiz by myself solely and will not
Take any help from neighboring fellows. Signature

A. Sort the following complexity classes in increasing order**.** [10]

$O(n \log n), O(n^2 \log n), O(n), O(1), O(n^n), O(\log n), O(2^n), O(\log^3 n)$

Complexity Ordering	Functions from the list above
1 (Most efficient)	
2	
3	
4	
5	
6	
7	
8 (Least efficient)	

B. What are the BIG-Three, just write names. [3]

C. Briefly and precisely describe Object and Comparable (ref: Mark Alan Weiss Book, Ch 01). [7]

D. Write the following member function of the LinkedList class to append a list, passed as argument, at its tail. LinkedList class have a node (self-referencing) pointer **head** points to the start of the list. [10]

void LinkedList::append(const LinkedList &lst)

E. Again, write the following member function of the LinkedList class to append a list, passed as argument, at its tail. LinkedList class have a two node (self-referencing) pointers **head** and **tail** points to the first and last nodes of the list respectively. [10]

void LinkedList::append(const LinkedList &lst)