## Typical Coding Interview Questions

## 1. Discuss the differences between BubbleSort, QuickSort and MergeSort.

2. What sort of structure would you use to create a dictionary - a structure that allows you to look up words to get their meanings?

3. Order the following functions in order of their asymptotic performance:

2^n
n^1000
n!
n^n

4. Give an algorithm to insert a value into a sorted linked list.

## 5. Give an algorithm for reversing a linked list.

6. There is a standard LinkedList class in Java. How could you determine if it is singly-linked or doubly-linked? 7. What are the differences between class variables, local variables , and static variabels?

8. How would you eliminate a repeated element in an array? (i.e., A[i] == A[i+1])

9. How would you eliminate a duplicate element in an array? (i.e., A[i] == A[j])