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:
   - $2^n$
   - $n^{\text{Googol}} (10^{100})$
   - $n!$
   - $n^n$
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 variables?
8. How would you find a repeated element in an array?

9. How would you find a duplicate element in an array?