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 variables?