**BFS:**

Time complexity is O(|V|) where |V| is the number of nodes,you need to traverse all nodes.   
Space complecity is O(|V|) as well - since at worst case you need to hold all vertices in the queue.

**DFS:**

Time complexity is again O(|V|), you need to traverse all nodes.   
Space complexity - depends on the implementation, a recursive implementation can have a O(h)space complexity [worst case], where h is the maximal depth of your tree.   
Using an iterative solution with a stack is actually the same as BFS, just using a stack instead of a queue - so you get both O(|V|) time and space complexity.

(\*) Note that the space complexity and time complexity is a bit different for a tree then for a general graphs becase you do not need to maintain a visited set for a tree, and |E| = O(|V|), so the |E|factor is actually redundant.