**Step 1 – Knowledge Question (20-50 words)**

In your own words, describe what a Binary Search Tree (BST) is.

In addition, describe two important properties of a BST: depth and height. How are they different?

Binary search tree is a type of data structure, which can quickly search, insert, or delete values by comparing them and moving left or right

The depth of a node is counted by the number of edges we need to go from the root down to that node.

The height of a node is the number of edges on the longest path from that node to a leaf.

**Step 2 – Knowledge Question (50-80 words)**

In your own words, describe how an algorithm to find an item in a Binary Search Tree works.

Start from the root of the tree, compare the value with the value at the current node, if it’s less than the current node’s value, go to the left child, if it's greater than the current node's value, go to the right child. If it’s equal to the current node’s value, then we found the item.

**Step 3 – Knowledge Question (20-60 words)**

In your own words, describe what a balanced BST is.

In a balanced binary search tree, the height difference between the left and right subtree of any node should not be more than 1.