# Quiz

It's quiz time! Test yourself by solving these questions about binary search trees.

1

The worst-case time complexity of insert, search and delete operations in a binary search tree is as follows:

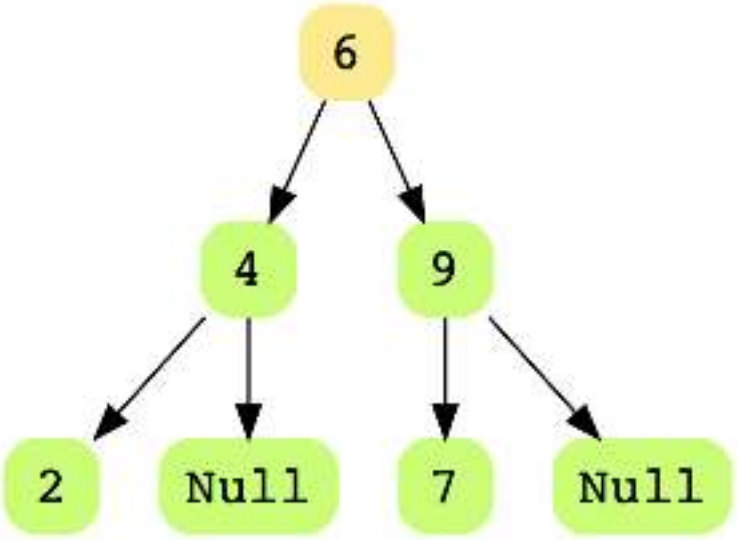
2

BST property:

The value of the left child of any node in a binary search tree will be less than whatever value we have in that node, and the value of the right child of a node will be equal to the value in that node.

3

Is the following tree a valid binary search tree?




4

What is the average time complexity of the following code?

```
def search(self, find_val):
  return self.search_helper(self.root, find_val)

def search_helper(self, current, find_val):
  if current:
    if current.data == find_val:
        return True
    elif current.data < find_val:
        return self.search_helper(current.right, find_val)
    else:
        return self.search_helper(current.left, find_val)
```

5

Which of the following is a valid implementation of the `Node` class for a binary search tree?

Check Answers