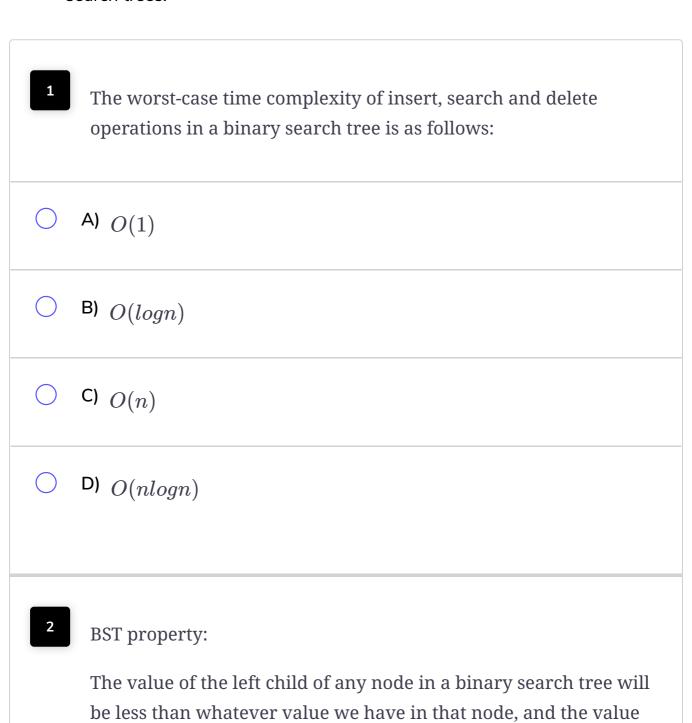
Quiz

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

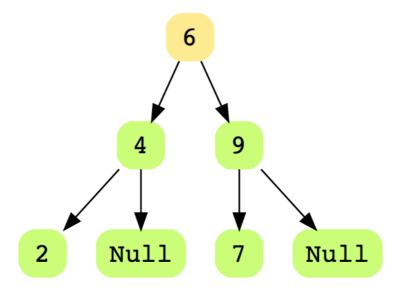


of the right child of a node will be equal to the value in that node.

A) True

B) False

Is the following tree a valid binary search tree?



- O A) True
- O B) False

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:</pre>
```

```
return self.search_helper(current.left, find_val)
\bigcirc A) O(n/2)
    B) O(logn)
    C) O(n)
\bigcirc D) O(nlogn)
      Which of the following is a valid implementation of the Node class
      for a binary search tree?
          class Node:
              def __init__(self, val):
                  self.val = val
                  self.Child = None
                  self.parent = None
     B)
          class Node:
              def __init__(self, val):
                  self.val = val
                  self.parent = None
     C)
          class Node:
             def __init__(self, val):
                  self.val = val
                  self.leftChild = None
```

```
class Node:
    def __init__(self, val):
        self.val = val
        self.Child = None
CHECK ANSWERS
```