Binary Search Tree : Insertion

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Problem Solving ★★★

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You are given a pointer to the root of a binary search tree and values to be inserted into the tree. Insert the values into their appropriate position in the binary search tree and return the root of the updated binary tree. You just have to complete the function.

Input Format

You are given a function,

```
Node * insert (Node * root ,int data) {

}
```

Constraints

- No. of nodes in the tree ≤ 500

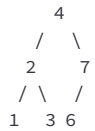
Output Format

Return the root of the binary search tree after inserting the value into the tree.

Sample Input

The value to be inserted is 6.

Sample Output



Change Theme Language Python 3

```
1  class Node:…
```

```
#Node is defined as
#self.left (the left child of the node)
#self.right (the right child of the node)
#self.info (the value of the node)

    def insert(self, val):
        #Enter you code here.
        # Base case
        if self.root is None:
            self.root = Node(val)
            return
        # Find where to insert
        cur = self.root
        while True:
            if val <= cur.info:
                if cur.left:
                    cur = cur.left
                else:
                    cur.left = Node(val)
                    return
            if val > cur.info:
                if cur.right:
                    cur = cur.right
                else:
                    cur.right = Node(val)
                    return
tree = BinarySearchTree()…
```

EMACS Line: 1 Col: 1

Upload Code as File | Test against custom input | Run Code | Submit Code

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Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Test case 1

Compiler Message

Success

Input (stdin) Download

Test case 2

```
6
4 2 3 1 7 6
```

Test case 3

Expected Output

Download

Test case 4

```
4 2 1 3 7 6
```

Test case 5