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## **Leetcode May Challenge DAY: 24**

### **1. Python**

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class Solution:

```
def add_node(self, parent, value):  
    if value > parent.val:  
        if not parent.right:  
            parent.right = TreeNode(value)  
        else:  
            self.add_node(parent.right, value)  
    else:  
        if not parent.left:  
            parent.left = TreeNode(value)  
        else:  
            self.add_node(parent.left, value)  
  
def bstFromPreorder(self, preorder: List[int]) -> TreeNode:  
    root = TreeNode(val=preorder[0])  
    n = len(preorder)  
    if n == 1:  
        return root  
  
    for i in range(1,n):  
        self.add_node(root, preorder[i])  
  
    return root
```

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## 2. C++

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```
TreeNode* bstFromPreorder1(vector<int>& preorder) {  
    int pos = 0;  
    return bst(preorder, pos, INT_MAX, INT_MIN);  
}
```

```
TreeNode* bst(vector<int>&preorder, int &pos, int max, int min){  
    if (pos >= preorder.size()) return NULL;  
    int val = preorder[pos];  
    if (val > max || val < min) return NULL;  
    ++pos;  
    TreeNode* node = new TreeNode(val);  
    node->left = bst(preorder, pos, val, min);  
    node->right = bst(preorder, pos, max, val);  
    return node;  
}
```

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### 3. JAVA

---

```
public TreeNode bstFromPreorder(int[] preorder) {  
    TreeNode root = new TreeNode(preorder[0]);  
    for (int i = 1; i < preorder.length; i++) {  
        build(root, preorder[i]);  
    }  
  
    return root;  
}  
  
private TreeNode build(TreeNode root, int n) {  
    if (root == null) {  
        return new TreeNode(n);  
    }  
  
    if (root.val < n) {  
        root.right = build(root.right, n);  
    } else if (root.val > n) {  
        root.left = build(root.left, n);  
    }  
  
    return root;  
}
```

