

```
inorder
4
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8
12

preorder
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postorder
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12
8

Process finished with exit code 0
```

```
39 root=node(8)
40
41 root.insert(5)
42
43 root.insert(11)
44
45 root.insert(4)
46
47 root.insert(7)
48
49 root.insert(9)
50
51 root.insert(12)
52
53 print("\n inorder")
54 inorder(root)
55
56 print("\n preorder")
57 preorder(root)
58
59 print("\n postorder")
60 postorder(root)
```

```
1 class node:
2     def __init__(self, data):
3         self.left = None
4         self.right = None
5         self.data = data
6
7     def insert(self, data):
8         if self.data:
9             if data < self.data:
10                 if self.left is None:
11                     self.left = node(data)
12                 else:
13                     self.left.insert(data)
14             elif data > self.data:
15                 if self.right is None:
16                     self.right = node(data)
17                 else:
18                     self.right.insert(data)
19             else:
20                 self.data = data
21
22     def inorder(self, root):
23         if root:
24             inorder(root.left)
25             print(root.data)
26             inorder(root.right)
27
28     def preorder(self, root):
29         if root:
30             print(root.data)
31             preorder(root.left)
32             preorder(root.right)
33
34     def postorder(self, root):
35         if root:
36             postorder(root.left)
37             postorder(root.right)
38             print(root.data)
```