

10							
5				20			
3		7				25	
			8				

```

1    private void preorderTraverse(TreeNode current) {
2        if (current == null) {
3            return;
4        }
5        System.out.print(current.getData() + ", ");
6        preorderTraverse(current.getLeft());
7        preorderTraverse(current.getRight());
8    }

```

**OUTPUT: 10, 5, 3, 7, 8, 20, 25,**

**TRACE WHEN CURRENT = ROOT**

```

1    1 Go to 2.
2    2 False. Go to 5.
3    5 Print "10, ". Go to 6.
4    6 Traverse the 5 node. Go to 1.
5        1 Go to 2.
6        2 False. Go to 5.
7        5 Print "5, ". Go to 6.
8        6 Traverse the 3 node. Go to 1.
9            1 Go to 2.
10           2 False. Go to 5.
11           5 Print "3, ". Go to 6.
12           6 Traverse null. Go to 1.
13               1 Go to 2.
14               2 True. Go to 3.
15               3 Return to after 12.6.
16           7 Traverse null. Go to 1.
17               1 Go to 2.
18               2 True. Go to 3.
19               3 Return to after 8.6.
20       7 Traverse the 7 node. Go to 1.
21           1 Go to 2.
22           2 False. Go to 5.
23           5 Print "7, ". Go to 6.
24           6 Traverse null. Go to 1.
25               1 Go to 2.
26               2 True. Go to 3.
27               3 Return to after 24.6.
28       7 Traverse the 8 node. Go to 1.
29           1 Go to 2.
30           2 False. Go to 5.

```

```
31             5 Print "8, ". Go to 6.
32             6 Traverse null. Go to 1.
33               1 Go to 2.
34               2 True. Go to 3.
35               3 Return to after 32.6.
36             7 Traverse null. Go to 1.
37               1 Go to 2.
38               2 True. Go to 3.
39               3 Return to after 4.6.
40       7 Traverse the 20 node. Go to 1.
41         1 Go to 2.
42         2 False. Go to 5.
43         5 Print "20, ". Go to 6.
44         6 Traverse null. Go to 1.
45           1 Go to 2.
46           2 True. Go to 3.
47           3 Return to after 44.6.
48       7 Traverse the 25 node. Go to 1.
49         1 Go to 2.
50         2 False. Go to 5.
51         5 Print "25, ". Go to 6.
52         6 Traverse null. Go to 1.
53           1 Go to 2.
54           2 True. Go to 3.
55           3 Return to after 52.6.
56       7 Traverse null. Go to 1.
57         1 Go to 2.
58         2 True. Go to 3.
59         3 Return to after 40.7.
60 8 Done.
```