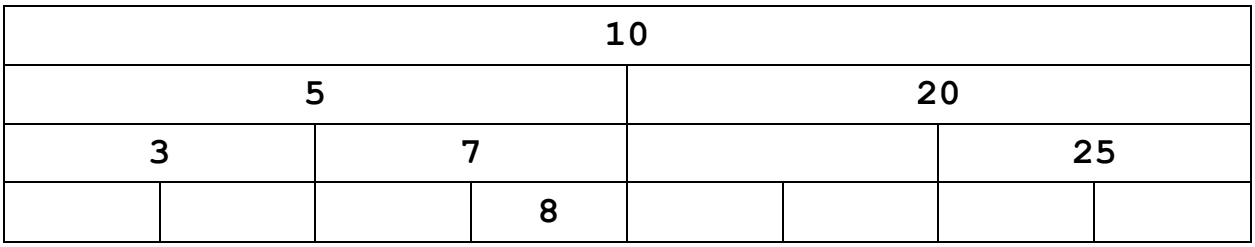


```
1     private void preorderTraverse(TreeNode current) {
2           if (current == null) {
3                 return;
4           }
5           System.out.print(current.getData() + ", ");
6           preorderTraverse(current.getLeft());
7           preorderTraverse(current.getRight());
8     }
```

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.
```

```
                    5 Print “8, ”. Go to 6.
                    6 Traverse null. Go to 1.
                         1 Go to 2.
                         2 True. Go to 3.
                         3 Return to after 32.6.
                    7 Traverse null. Go to 1.
                         1 Go to 2.
                         2 True. Go to 3.
                         3 Return to after 4.6.
7 Traverse the 20 node. Go to 1.
     1 Go to 2.
     2 False. Go to 5.
     5 Print “20, ”. Go to 6.
     6 Traverse null. Go to 1.
          1 Go to 2.
          2 True. Go to 3.
          3 Return to after 44.6.
     7 Traverse the 25 node. Go to 1.
          1 Go to 2.
          2 False. Go to 5.
          5 Print “25, ”. Go to 6.
          6 Traverse null. Go to 1.
               1 Go to 2.
               2 True. Go to 3.
               3 Return to after 52.6.
          7 Traverse null. Go to 1.
               1 Go to 2.
               2 True. Go to 3.
               3 Return to after 40.7.
8 Done.
```