

Enter Choice: 1
Enter value: 15

AVL Tree Menu

1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit

Enter Choice: 3

Tree Structure:

```

                1
            2
        4
    6
8
    10
        12
            14
                15
```

AVL Tree Menu

1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit

Enter Choice: 2

Enter value to delete: 12

```
Enter Choice: 2
Enter value to delete: 12
```

```
-----
AVL Tree Menu
-----
1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit
```

```
Enter Choice: 3
Tree Structure:
```

```

                1
            2
        4
    6
8
    10
        13
            14
                15
```

```
-----
AVL Tree Menu
-----
1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit
```

```
Enter Choice: 2
Enter value to delete: 8
```

```
Enter Choice: 2
Enter value to delete: 8
```

```
-----
AVL Tree Menu
-----
1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit
```

```
Enter Choice: 3
Tree Structure:
```

```

              1
            2
          4
        6
      9
    10
  13
14
15
```

```
-----
AVL Tree Menu
-----
1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit
```

```
Enter Choice: 4
Inorder: 1 2 3 4 5 6 7 9 10 11 13 14 15
```

```
-----
Inorder: 1 2 3 4 5 6 7 9 10 11 13 14 15
-----
```

```
AVL Tree Menu
-----
```

1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit

Enter Choice: 5

```
Preorder: 9 4 2 1 3 6 5 7 13 10 11 14 15
-----
```

```
AVL Tree Menu
-----
```

1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit

Enter Choice: 6

```
Postorder: 1 3 2 5 7 6 4 11 10 15 14 13 9
-----
```

```
AVL Tree Menu
-----
```

1. Insert Element
2. Delete Element
3. Display Tree
4. Inorder Traversal
5. Preorder Traversal
6. Postorder Traversal
7. Level Order Traversal
8. Exit

Enter Choice: 7

```
Level order: 9 4 13 2 6 10 14 1 3 5 7 11 15
-----
```