

Threaded BST Screenshots and Statements

1. Upon program execution, we can see the size of the tree is 13, matching the number of insert statements:

```
myTree.insert(77, "seventy-seven");
myTree.insert(70, "seventy");
myTree.insert(75, "seventy-five");
myTree.insert(66, "sixty-six");
myTree.insert(79, "seventy-nine");
myTree.insert(68, "sixty-eight");
myTree.insert(67, "sixty-seven");
myTree.insert(69, "sixty-nine");
myTree.insert(90, "ninety");
myTree.insert(85, "eighty-five");
myTree.insert(83, "eighty-three");
myTree.insert(87, "eighty-seven");
myTree.insert(65, "sixty-five");
```

Microsoft Visual Studio Debug Co
<Tyler Ellis ----- CSIS 215>
My BST tree size is: 13

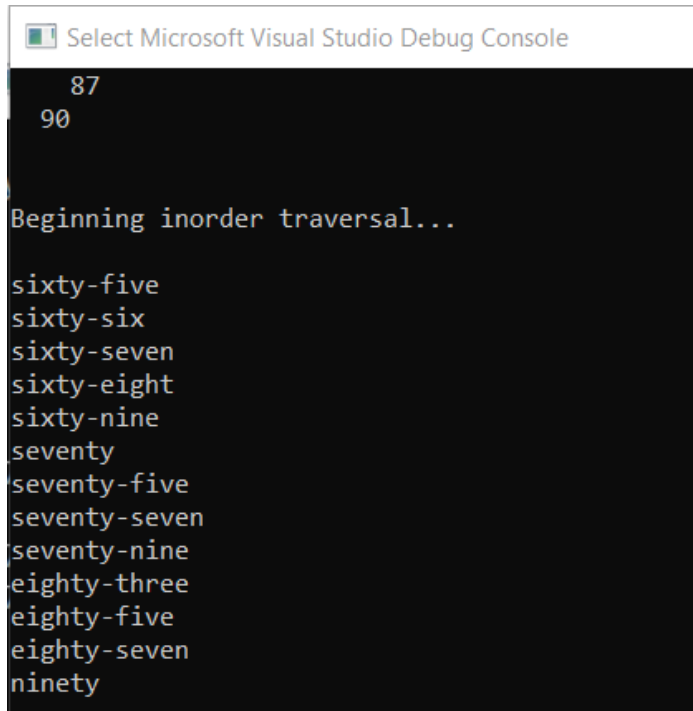
2. After this, the print statement executes and displays the following tree structure:

```
Select Microsoft Visual Studio Debug Console

My tree's structure after all insertions is:

65
66
67
68
69
70
75
77
79
83
85
87
90
```

3. When `printlnorder()` is called by the tree object, it prints the values in an inorder traversal:



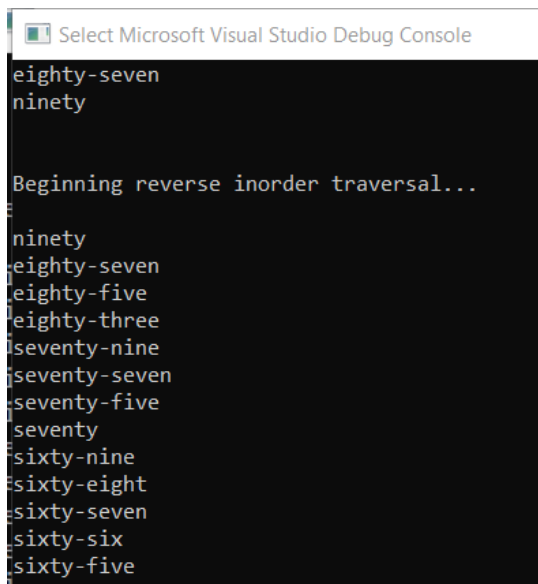
```
Select Microsoft Visual Studio Debug Console

87
90

Beginning inorder traversal...

sixty-five
sixty-six
sixty-seven
sixty-eight
sixty-nine
seventy
seventy-five
seventy-seven
seventy-nine
eighty-three
eighty-five
eighty-seven
ninety
```

4. Lastly, the reverse inorder traversal is printed using `printReverse()`:



```
Select Microsoft Visual Studio Debug Console

eighty-seven
ninety

Beginning reverse inorder traversal...

ninety
eighty-seven
eighty-five
eighty-three
seventy-nine
seventy-seven
seventy-five
seventy
sixty-nine
sixty-eight
sixty-seven
sixty-six
sixty-five
```

INTEGRITY STATEMENTS

- I declare that this code I have added to the files downloaded from the assignment instructions is my own, original work, and that all lines of code were written exclusively by me.
- If requested by my instructor, I can provide sources for all resources I used in completing the assignment.
- I did not knowingly modify this assignment in an effort to defeat/beat the assignment expectations.