| **Application/ Program name:** | L4-1.cpp |
| --- | --- |
| **Written by:** | William Laffey |

| **Purpose or problem definition:** |
| --- |
| Creates 3 binary trees and traverses them in various orders including inorder, preorder, and postorder. It then swaps the last tree and displays it inorder. |
|  |
| **Program Procedures:** |
| Takes user input then displays the trees in their orders, swaps the last tree, and displays that. |
|  |
| **Algorithm/Processing/Conditions:** |
| **Inputs:** |
| Any numbers as long as they end with -999 |
| **Processes:** |
| inorderTraversal()  preorderTraversal()  postorderTraversal()  treeHeight()  treeLeavesCount()  swapSubtrees() |
| **Outputs:** |
| Traversal orders and the swap order |
|  |
| **Notes & Restriction:** |
|  |
|  |
| **Comments:** |
|  |