

Take your code from Lab Sheet 4A (Binary Search Tree and Tree Node) for a binary search tree of integers and add the following methods.

- `int Serialise(ofstream& OutFile)` save the BST to a text file, returns -1 if it fails.
- `int Deserialise(ifstream& InFile)` reads a BST from a text file, returns -1 if it fails.

These are secure public method that only take the file pointer as an argument, they call private method that takes the file pointer and a pointer to the root node which is a private attribute of the tree.

- `int Serialise (ofstream& OutFile, TreeNode * root)`
- `int Deserialise (ifstream& InFile, TreeNode * root)`

You should test your methods by adding a series of at least 10 integers to the tree, serialise the tree and then deserialise it and check that same tree structure and nodes as the original tree are constructed.