Using the non-recursive mergesort code provided in class as guide, modify the (extremely) simple implementation of binary search trees provided in the class webpage to implement non-recursive, stack-based versions of:

1. inOrder traversal
2. preOrder traversal
3. postOrder traversal

In addition, write recursive versions of preOrder and postOrder traversal (inOrder is already provided) to check your methods’ results, making sure that your non-recursive methods have the same behavior as the recursive one.

Test your methods using randomly-generated sequences of integers to generate the binary search trees.

As usual, write a report describing your work.