CS2413: Data Structure
Fall 2021

Lab Assignment #8

- Release date: Oct 21st, 2021 (Thursday)
- Due date: Oct 23rd, 2021 (Saturday) 11:59 PM
- It should be done INDIVIDUALLY.
- Please turn in your codes through Blackboard in **one file in .cpp format**. Do **NOT** compress/zip your submission. This is to ensure faster grading.
- Please name your submission file starting with "LastName_FirstName_Lab08"
- Total: 20 pts

Problem:

Write a program that checks if A given tree is a binary search tree or not.

The driver function is as follows. You need to write the isBST function.

```
 int main()

{

    node *root = new node(4);

    root->left = new node(2);

    root->right = new node(5);

    root->left->left = new node(1);

    root->left->right = new node(3);

    if(isBST(root))

        cout<<"Is BST";

    else

        cout<<"Not a BST";

    return 0;

}
```

The output should print out "IS BST" or "NOT a BST". For an example, the given tree on the driver function should print out "IS BST".