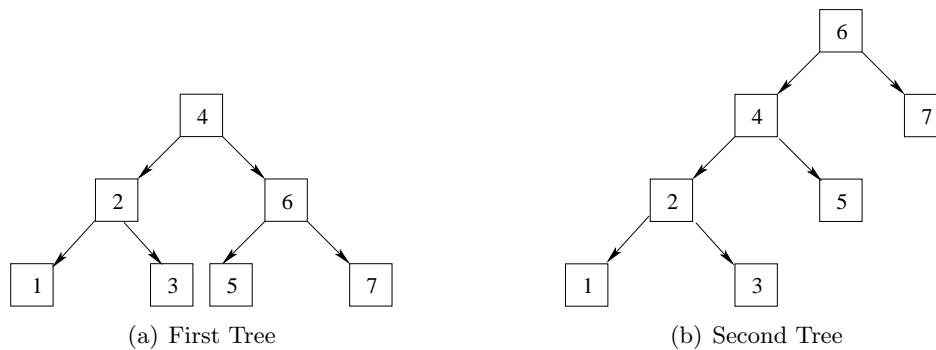


CS 2123
Data Structures
Assignment 6
Due Friday April 15

1. (100 pts) Write a program to check if a binary search tree is a subset of another binary search tree. Implement the function `issubset()` given below

```
int issubset(node *tree1, node *tree2)
```

This function should return 1 if all the elements of the first tree appear in the second tree and 0 otherwise. Note that depending on the insertion order of elements, two trees with same set of elements can have very different shapes. Consider the binary search trees given below. They contain the same set of elements but have different shapes.



Sample execution is given below

```
fox01>assign6
Enter the set of numbers for the first tree
4 2 6 1 3 5 7
Enter the set of numbers for the second tree
6 4 7 2 5 1 3
First tree is a subset of second tree
```

Insert the numbers into the trees in the order they are listed. Once you build the trees, use the `issubset` function to check if first tree is a subset of second tree.

Submit your program electronically using the blackboard system

The program you submit should be your own work. Cheating will be reported to office of academic integrity. Both the copier and copiee will be held responsible.