CL2001 – Data Structure Lab
Lab 7 Task:

Problem: 1 | Power of Three

Given an integer n, return true if it is a power of three. Otherwise, return false.

An integer n is a power of three, if there exists an integer x such that n == 3^x.

Example 1:

```
Input: n = 27
Output: true
```

Example 2:

```
Input: n = 0
Output: false
```

Example 3:

```
Input: n = 9
Output: true
```

Problem: 2 | Power of Three

Perform the Problem 1 using recursion.

Problem: 3 | Multiply two numbers

Write a function for mutliply(a, b), where a and b are both positive integers, but you can only use the + or − operators.

Note: Use Recursion to solve the above problem.

Problem: 4 | BST

Implement the following functions for Binary Search Tree.

1. Function to insert a node in BST.
2. Function to display all the nodes.
3. Function to search a specific node in BST.
4. Functions to find the largest and smallest values in BST.