

## 1) (10 pts) DSN (Binary Trees)

Write a function named *fsl()* (which stands for “find smallest leaf”) that takes a pointer to the root of a binary tree as its only argument and returns the value of the smallest leaf node in the tree. Note that the tree passed to your function will not necessarily be a binary search tree. If the pointer root is NULL, fsl should return INT\_MAX, which is defined below.

You cannot write any helper functions for this problem. You must complete all of your work in a single function. The function signature and node struct are given below.

```
#define INT_MAX 2147483647
```

```
typedef struct node {  
    int data;  
    struct node *left;  
    struct node *right;  
} node;
```

```
int fsl(node *root) {
```

```
}
```