## TreeSumOdds

Your task is to write a function, TreeSumOdds, that returns the sum of all of the odd values in the given tree.

## Download

Click here to download a zip of the files.

## The Files

**Tree.c** Contains code for reading and printing a binary tree

**Tree.h** Contains the definition of the binary tree data structure and function prototypes

testTreeSumOdds.c Contains the main function, which reads in a binary tree from standard input, calls

TreeSumOdds, and prints out the result.

**TreeSumOdds.c** Contains TreeSumOdds, the function you must implement

**Makefile** A makefile to compile your code

**tests/** A directory containing the inputs and expected outputs for some basic tests

A script that uses the tests in the tests directory to autotest your solution. You should only

run this after you have tested your solution manually.

## **Examples**

Your program should behave like these examples:

```
$ ./testTreeSumOdds
Enter the preorder traversal of the tree: 3 2 1 4 5
Enter the in-order traversal of the tree: 1 2 3 4 5
Tree:

3
/\
2  4
/ \
1  5
TreeSumOdds returned 9
```

```
$ ./testTreeSumOdds
Enter the preorder traversal of the tree: 8 4 2 6 12 14
Enter the in-order traversal of the tree: 2 4 6 8 12 14
Tree:

8
/\
/ \
/ \
4 12
/\ \
2 6 14

TreeSumOdds returned 0
```

You can test your program manually by compiling your code using make, and then running ./testTreeSumOdds, as shown above. After you are satisfied with your solution, you can autotest it by running ./autotest. This will run some basic tests on your program.