

Programming Exam Choice 23

Start by downloading the question 23 files from the moodle into a new directory on your machine. You will be changing the code in the question23.cpp file. You have a Makefile to handle building this code. (I have included my solution code for the binary search tree here, but you can't easily read it because it's in an .o file. That's so you can trust the basic functions to work.)

Part 1. 5 points

You will complete this function to find the smallest number in a binary search tree. You may assume that the tree is not empty; it has at least one node. Be smart about binary search trees here.

```
int tree_min_recursive(const binary_tree_node* root_ptr)
{

}
```

Part 2. 5 points

After that, complete this second function to find the largest number in a binary search tree. You may assume that the tree is not empty; it has at least one node. Remain smart about binary search trees here.

```
int tree_max_recursive(const binary_tree_node* root_ptr)
{

}
```

When you are satisfied, please upload your question23.cpp file to the moodle. Your TA may ask you to zip other files in as well.

Logic of problem laid out in comments:	50%
Code compiles with no errors or warnings:	10%
Code has no run time errors:	10%
Code gives correct answers for all inputs:	20%
Code is clean and easy to read:	10%