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Preview Assessment: Test 3

Name: Test 3

Instructions: You have 30 minutes to complete the test. Provide your answer in the text area provided at the bottom.

Timed Assessment: This Test has a 30 minute timer. The elapsed time appears at the bottom of the window.
A **1 minute** warning will be displayed. *[The timer does not appear when previewing this Test]*

Multiple Attempts: Not allowed. This Test can only be taken once.

Force Completion: This Test must be completed now.

▼ Question Completion Status:

Question 1

25 points

[Save](#)

1. Suppose that 30,000 nodes have to be inserted into a Binary Search Tree data structure. The minimum number of levels needed (root is at level 0, which counts for one level) is:

2. Suppose a Binary Tree has 10 levels (root is at level 0, which counts for one level). The maximum # of nodes in the tree is:

3. Consider the following class for a BST:

```
class BST {  
public:  
int key;  
BST* left;  
BST* right;  
BST* parent;  
};
```

Write a non-member function `int left_height(BST* bst)` that returns the height of the left subtree of `bst`. Only write the function - nothing else.

Smart Text Plain Text HTML



Preview

Save Submit