Optimal binary search tree

Generated by Doxygen 1.8.18

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

Class Documentation

2.1 BinaryTree< T > Class Template Reference

Public Member Functions

- void add (T val)
  Inserts the key 'val' into the tree.
- void printPreOrder ()
  Print in preorder.
- void printInOrder ()
  Print in inorder.
- void printPostOrder ()
  Print in postorder.
- int size ()
  Get tree size.
- bool lookup (T val)
  Check if node with key 'val' exists in tree.
- Node< T > * search (T val)
  Returns the pointer to the node with the key 'val'.
- Node< T > * optimalSearchTree ()
  Search optimal tree and rebild current tree.
- void **setRoot** (Node< T > *root)
- Node< T > * **getRoot** ()

The documentation for this class was generated from the following file:

- Optimal_BST.h

2.2 Node< T > Class Template Reference

Public Member Functions

- **Node** (T val)
- **Node** (T val, unsigned int freq)
- **Node** (Node< T > *n)
- void **setLeft** (Node< T > *l)
- void **setRight** (Node< T > *r)
- void **setParent** (Node< T > *p, bool left)

Public Attributes

- T **value**
- Node * **right**
- Node * **left**
- Node * **parent**
- unsigned int **frequency**

Friends

- bool **operator**< (const Node< T > &lhs, const Node< T > &rhs)

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Index