Red-black tree

Generated by Doxygen 1.8.18

1 Class Index	1
1.1 Class List	1
2 Class Documentation	3
2.1 RedBlackTree< KeyType > Class Template Reference	3
2.1.1 Member Function Documentation	3
2.1.1.1 getRoot()	3
2.1.1.2 search()	3
Index	5

Chapter 1

Class Index

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1	1	Class	I IQT

Here are the classes, structs, uni	ons and interfaces with brief descriptions:
RedBlackTree< KevTvpe >	

2 Class Index

Chapter 2

Class Documentation

2.1 RedBlackTree < KeyType > Class Template Reference

Public Member Functions

```
    void insert (KeyType key)
```

Inserts the key 'key' into the tree.

RBTreeNode< KeyType > * search (KeyType key)

Returns the pointer to the node with the key 'key'.

RBTreeNode< KeyType > * getRoot ()

Returns the pointer to the root.

void print (std::ostream &out=std::cout)

Prints the tree according to the inorder traversal.

· void clear ()

Deletes (free the memory) all nodes.

2.1.1 Member Function Documentation

2.1.1.1 getRoot()

```
template<typename KeyType >
RBTreeNode< KeyType > * RedBlackTree< KeyType >::getRoot [inline]
```

Returns the pointer to the root.

If the tree is not empty, returns the not null pointer to the root node. Otherwise, returns null pointer.

2.1.1.2 search()

Returns the pointer to the node with the key 'key'.

If the node with the key 'key' exists, returns the not null pointer to that node. Otherwise, returns null pointer.

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

· C:/Users/TimurKrasnopir/Desktop/rbtree-doxygen/RedBlackTree.h

4 Class Documentation

Index

```
getRoot
RedBlackTree< KeyType >, 3
RedBlackTree< KeyType >, 3
getRoot, 3
search, 3
search
RedBlackTree< KeyType >, 3
```