Templated class Dictionary with typenames <Key, Info>. It is implemented as a binary tree of Node structures pointing at 2 other Node structures, until the final one points at 2 NULLs. Node structures each have 4 variables: key of type Key, info of type Info, left of type Node* and right of type Node*. They also have a constructor for creating nodes. Dictionary points at the first Node with a private Node* root. Dictionary has 3 constructors – blank constructor, copy constructor and constructor from arrays, and a destructor.

Method:	Arguments:	Description:	Returns:
height	void	Returns number of	Number of levels
		levels, calls private	
		height method	
printree	void	"draws" tree to cout	void
inorder/preorder	void	Prints the tree in-, pre-,	void
/postorder		or postorder to cout	
remove	Key k	Remove element with	True if removed, false
		Key k, calls private	if not
		remove method	
clear	void	Clears the tree, calls	void
		private clear method	
insert	Key k, Info i	Inserts a node with Key	True if inserted, else
		k and Info I, calls private	false
		insert method	
balance, rightrot,	Node* head	Private balancing	void
leftrot		functions	
search	Info i	Searches for elements	Number of elements
		with Info I, calls private	
		method search	
seek	Key k	Looks for element with	True if found, else false
		Key k	
furthest/ avgfurthest	void	Looks for info at most	Info at furthest
		distant leaves, returns	leftmost leaf, or
		info of leftmost most	average of it
		distant leaf, or the	
		average	
max/min/rightmost	void	Return maximum info in	Maximum/minimum
/leftmost		the tree, minimum info,	values of Info and Key
		maximum key or	
		minimum key	
equals	Node* head,	Private helper function	True if trees are equal,
	Node*other	of ===	else false
insertion	Node* other	Private helper function	void
		of = and copy	
		constructor, inserts all	
		elements of "other"	
		tree into this tree	
isempty	void	-	True if tree is empty,
			else false
rootkey, rootinf	void	Return values at root	Key or Info at root

Operator:	Description:	Returns:
=	Assignment operator, copies the "right" list to the "left" one (deep copy).	The "right" list
==	Comparison operator.	True if trees are equal, else false.
	Takes Key as argument	Returns info at key

Iterator:

Operator:	Description:	Returns:
++/	Right/ left element	*this
*/!	Access element	Info/Key at iterator position
==	Equals	True if equal, else false
=	Assignment operator	*this
reset	Reset iterator to where it started	Void
finished	-	True if iterator points to NULL, else false
Begin/end	Take iterator to lowest/highest element	*this

Iterator implements 3 constructors: blank, copy and from a Dictionary object.