lr1

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1 Class Index	1
1.1 Class List	1
2 File Index	3
2.1 File List	3
3 Class Documentation	5
3.1 DictionaryNode Class Reference	5
3.2 DictionaryTree Class Reference	5
3.2.1 Member Function Documentation	6
3.2.1.1 Add()	6
3.2.1.2 GetWordsCount()	6
3.2.1.3 IsContains()	6
3.2.1.4 LoadFromFile()	6
3.2.1.5 operator[]()	7
3.2.1.6 Remove()	7
3.2.1.7 Translate()	7
3.2.1.8 UpdateTranslation()	8
4 File Documentation	9
4.1 Dictionary.h	9
Index	11

Class Index

1.1 Class List

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

DictionaryNode		 		 						 					 						5
DictionaryTree .		 		 											 						5

2 Class Index

File Index

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Here is a list of all documented files with brief descriptions:	
C:/Users/HONOR/OneDrive// /3//lr1/ Dictionary.h	ç

File Index

Class Documentation

3.1 DictionaryNode Class Reference

Public Member Functions

• DictionaryNode (const string &english, const string &russian)

Public Attributes

- · string englishWord
- · string russianWord
- DictionaryNode * left
- DictionaryNode * right

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

· C:/Users/HONOR/OneDrive// /3//lr1/Dictionary.h

3.2 DictionaryTree Class Reference

Public Member Functions

∼DictionaryTree ()

Class destructor.

• bool IsContains (const string &english)

Helper method for checking if a dictionary contains required word (with parameter)

• void Add (const string &english, const string &russian)

Method Adding a couple of words to dictionary (with parameters)

· void Remove (const string &english)

Method Removing a couple of words (with parameter)

• string Translate (const string &english)

Method for obtaining translation (with parameter)

• void UpdateTranslation (const string &english, const string &russian)

Method Changing a couple of words in dictionary (with parameters)

• int GetWordsCount ()

Method which calculate count of word's couples.

• void **LoadFromFile** (const string &filename)

Method Loading dictionary data from file (with parameter)

• string **operator[]** (const string &english)

Overloading indexer operator (with parameter)

6 Class Documentation

3.2.1 Member Function Documentation

3.2.1.1 Add()

Method Adding a couple of words to dictionary (with parameters)

Parameters

```
english,russian couple of words of the dictionary
```

3.2.1.2 GetWordsCount()

```
int DictionaryTree::GetWordsCount ( )
```

Method which calculate count of word's couples.

Returns

node's count

3.2.1.3 IsContains()

Helper method for checking if a dictionary contains required word (with parameter)

Parameters

english	english word of the dictionary
---------	--------------------------------

Returns

True if yes, False if no

3.2.1.4 LoadFromFile()

Method Loading dictionary data from file (with parameter)

Parameters

hich the dictionary is read	file from w	filename
-----------------------------	-------------	----------

3.2.1.5 operator[]()

Overloading indexer operator (with parameter)

Parameters

english english word of the dictionary
--

Returns

russian translation

3.2.1.6 Remove()

Method Removing a couple of words (with parameter)

Parameters

```
english word of the dictionary
```

3.2.1.7 Translate()

Method for obtaining translation (with parameter)

Parameters

english	english word of the dictionary

Returns

russian translation

8 Class Documentation

3.2.1.8 UpdateTranslation()

Method Changing a couple of words in dictionary (with parameters)

Parameters

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

- C:/Users/HONOR/OneDrive// /3//lr1/Dictionary.h
- C:/Users/HONOR/OneDrive// /3//lr1/1.cpp
- C:/Users/HONOR/OneDrive// /3//lr1/main.cpp

File Documentation

4.1 Dictionary.h

```
00001 #pragma once
00002 #include <string>
00003 #include <fstream>
00004 using namespace std;
00005
00006 class DictionaryNode {
00007 public:
80000
           string englishWord;
00009
           string russianWord;
00010
           DictionaryNode* left;
00011
           DictionaryNode* right;
00012
           \label{limits} {\tt DictionaryNode(const\ string\&\ english,\ const\ string\&\ russian):english{\tt Word(english),}}
00013
00014
               russianWord(russian), left(NULL), right(NULL) {}
00015 };
00017 class DictionaryTree {
00018 private:
00019
          DictionaryNode* node;
00020
00021
           DictionaryNode* DeleteNode(const string& key);
           int GetNodesCount(DictionaryNode* node);
00023
           void DeleteDictionary(DictionaryNode* node);
00024
00025 public:
00026
           DictionaryTree() : node(NULL) {}
00027
           ~DictionaryTree();
00028
00029
00030
           bool IsContains(const string& english);
00031
           void Add(const string& english, const string& russian);
           void Remove(const string& english);
string Translate(const string& english);
void UpdateTranslation(const string& english, const string& russian);
00032
00033
00034
00035
           int GetWordsCount();
00036
           void LoadFromFile(const string& filename);
00037
00038
           string operator [](const string& english);
00039 1:
```

10 File Documentation

Index

```
Add
     DictionaryTree, 6
C:/Users/HONOR/OneDrive// /3//Ir1/Dictionary.h, 9
DictionaryNode, 5
DictionaryTree, 5
    Add, 6
    GetWordsCount, 6
    IsContains, 6
    LoadFromFile, 6
    operator[], 7
    Remove, 7
    Translate, 7
     UpdateTranslation, 7
GetWordsCount
     DictionaryTree, 6
IsContains
     DictionaryTree, 6
LoadFromFile
     DictionaryTree, 6
operator[]
     DictionaryTree, 7
Remove
     DictionaryTree, 7
Translate
     DictionaryTree, 7
UpdateTranslation
     DictionaryTree, 7
```