

My own String class

0.1

Generated by Doxygen 1.8.13

Contents

1	Test List	1
2	Class Index	3
2.1	Class List	3
3	File Index	5
3.1	File List	5
4	Class Documentation	7
4.1	MyString Class Reference	7
4.1.1	Constructor & Destructor Documentation	7
4.1.1.1	MyString() [1/2]	7
4.1.1.2	MyString() [2/2]	7
4.1.2	Member Function Documentation	8
4.1.2.1	compareStr()	8
4.1.2.2	getInternalCString()	8
4.1.2.3	getNlength()	8
4.1.2.4	reverseit()	8
4.1.3	Friends And Related Function Documentation	8
4.1.3.1	operator<<	8
4.1.4	Member Data Documentation	9
4.1.4.1	internalCString	9
4.1.4.2	nlength	9

5 File Documentation	11
5.1 main.cpp File Reference	11
5.1.1 Function Documentation	11
5.1.1.1 main()	11
5.2 MyString.cpp File Reference	11
5.2.1 Function Documentation	12
5.2.1.1 operator<<()	12
5.3 MyString.h File Reference	12
5.4 testMyString.cpp File Reference	12
5.4.1 Macro Definition Documentation	13
5.4.1.1 CATCH_CONFIG_MAIN	13
5.4.2 Function Documentation	13
5.4.2.1 TEST_CASE()	13
Index	15

Chapter 1

Test List

Member **TEST_CASE** ("1) Testing MyString")

- 1) Testing `MyString` Constructor
- 2) Testing `MyString` Constructor Empty
- 3) Testing `MyString` Compare Method
- 4) Testing `MyString` Revert Method
- 5) Testing `MyString` `<<` opearor

Chapter 2

Class Index

2.1 Class List

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

MyString	7
------------------------------------	---

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

main.cpp	11
MyString.cpp	11
MyString.h	12
testMyString.cpp	12

Chapter 4

Class Documentation

4.1 MyString Class Reference

```
#include <MyString.h>
```

Public Member Functions

- [MyString](#) ()
- [MyString](#) (const char *cString)
- char * [getInternalCString](#) () const
- int [getNlength](#) () const
- void [reverseit](#) ()
- int [compareStr](#) (const [MyString](#) &lhs, const [MyString](#) &rhs)

Private Attributes

- unique_ptr< char []> [internalCString](#)
- int [nlength](#)

Friends

- ostream & [operator<<](#) (ostream &os, const [MyString](#) &myString)

4.1.1 Constructor & Destructor Documentation

4.1.1.1 [MyString\(\)](#) [1/2]

```
MyString::MyString ( )
```

Default Constructors. Creates an object with empty string.

4.1.1.2 [MyString\(\)](#) [2/2]

```
MyString::MyString (
    const char * cString )
```

Constructor with one parameter In

Parameters

<i>cString</i>	String to create
----------------	------------------

4.1.2 Member Function Documentation

4.1.2.1 compareStr()

```
int MyString::compareStr (
    const MyString & lhs,
    const MyString & rhs )
```

4.1.2.2 getInternalCString()

```
char * MyString::getInternalCString ( ) const
```

Get Object's string data member

Returns

object's string data member

4.1.2.3 getNlength()

```
int MyString::getNlength ( ) const
```

Get the objects string length

Returns

object string length

4.1.2.4 reverseit()

```
void MyString::reverseit ( )
```

Reverit: will reverse the other of string chars

4.1.3 Friends And Related Function Documentation

4.1.3.1 operator<<

```
ostream& operator<< (
    ostream & os,
    const MyString & myString ) [friend]
```

Operator overload << for MyString class

Parameters

<i>os</i>	system os
<i>myString</i>	reference to object

Returns

os output of object

4.1.4 Member Data Documentation

4.1.4.1 internalCString

```
unique_ptr<char [ ]> MyString::internalCString [private]
```

4.1.4.2 nlength

```
int MyString::nlength [private]
```

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

- [MyString.h](#)
- [MyString.cpp](#)

Chapter 5

File Documentation

5.1 main.cpp File Reference

```
#include <iostream>
#include "MyString.h"
```

Functions

- int [main](#) (void)

5.1.1 Function Documentation

5.1.1.1 main()

```
int main (
    void )
```

5.2 MyString.cpp File Reference

```
#include <memory>
#include "MyString.h"
```

Functions

- ostream & [operator<<](#) (ostream &os, const [MyString](#) &myString)

5.2.1 Function Documentation

5.2.1.1 operator<<()

```
ostream& operator<< (
    ostream & os,
    const MyString & myString )
```

Operator overload << for [MyString](#) class

Parameters

<i>os</i>	system os
<i>myString</i>	reference to object

Returns

os output of object

5.3 MyString.h File Reference

```
#include <iostream>
#include <stdlib.h>
#include <time.h>
#include <memory>
```

Classes

- class [MyString](#)

5.4 testMyString.cpp File Reference

```
#include "catch.hpp"
#include "MyString.h"
```

Macros

- #define [CATCH_CONFIG_MAIN](#)

Functions

- [TEST_CASE](#) ("1) Testing [MyString](#)")

5.4.1 Macro Definition Documentation

5.4.1.1 CATCH_CONFIG_MAIN

```
#define CATCH_CONFIG_MAIN
```

5.4.2 Function Documentation

5.4.2.1 TEST_CASE()

```
TEST_CASE (
    " 5 )
```

Test 1) Testing [MyString](#) Constructor

Test 2) Testing [MyString](#) Constructor Empty

Test 3) Testing [MyString](#) Compare Method

Test 4) Testing [MyString](#) Revert Method

Test 5) Testing [MyString](#) << opearator

Index

- CATCH_CONFIG_MAIN
 - testMyString.cpp, [13](#)
- compareStr
 - MyString, [8](#)
- getInternalCString
 - MyString, [8](#)
- getNlength
 - MyString, [8](#)
- internalCString
 - MyString, [9](#)
- main
 - main.cpp, [11](#)
- main.cpp, [11](#)
 - main, [11](#)
- MyString, [7](#)
 - compareStr, [8](#)
 - getInternalCString, [8](#)
 - getNlength, [8](#)
 - internalCString, [9](#)
 - MyString, [7](#)
 - nlength, [9](#)
 - operator<<, [8](#)
 - reverseit, [8](#)
- MyString.cpp, [11](#)
 - operator<<, [12](#)
- MyString.h, [12](#)
- nlength
 - MyString, [9](#)
- operator<<
 - MyString, [8](#)
 - MyString.cpp, [12](#)
- reverseit
 - MyString, [8](#)
- TEST_CASE
 - testMyString.cpp, [13](#)
- testMyString.cpp, [12](#)
 - CATCH_CONFIG_MAIN, [13](#)
 - TEST_CASE, [13](#)