My own String class

0.1

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Chapter 2

Class Index

2.1 Class List

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

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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

cString	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 ( )
```

Rerverit: 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

os	system os
myString	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

os	system os
myString	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

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