## 3460:209-010 Fall 2011 Lab 3 Report

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Note: First column is revision number when that line was last changed.
----- ig11/Labs/Lab3/string.cpp ------
Lab 3: make your own string class string.cpp
Author: Istvan Gates
       Ig11@zips.uakron.edu
Purpose: make my own string class with constructor and deconstructor
#include <iostream>
#include "string.hpp"
----- ig11/Labs/Lab3/CMakeLists.txt -----
project(Lab3 CXX)
cmake_minimum_required(VERSION 2.8.11)
set(CMAKE_CXX_FLAGS "-std=c++11")
add executable(lab3
       string.cpp
       main.cpp)
----- ig11/Labs/Lab3/string.hpp ------
/*
Lab 3: Make your own string class string.hpp
Author: Istvan Gates
       ig11@zips.uakron.edu
Purpose: make my own string class with constructor and deconstructor
#ifndef STRING HPP
#define STRING_HPP
#include <string.h>
using namespace std;
//create the STring class
class String{
       int len;
       char* str;
       public:
//default constructor for String
       String()
       :len(0), str(nullptr)
       {}
//copy constructor for String. copies the length of existing char array, dynamicall/
 allocates memory for the new string
       String(String const& s)
       :len(s.len), str(new char[len+1])
               strcpy(str, s.str);
//c-string constructor. copies length and contents, then dynamically allocates memo/
ry for new c string array
       String(char const* s)
       :len(strlen(s)), str(new char[len + 1])
```

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strcpy(str, s);
//deconstructor to free up dynamically allocated memory
       ~ String(){
       delete[] str;
};
#endif
----- ig11/Labs/Lab3/main.cpp ------
Lab 3: Make Your Own String Class main.cpp
Author: Istvan Gates
       ig11@zips.uakron.edu
Purpose: make my own string class with constructor and deconstructor
#include "string.hpp"
int main(){
       String s1;
       String s2 = "test";
       String s3 = s2;
r617 | ig11 | 2015-10-06 16:14:37 -0400 (Tue, 06 Oct 2015) | 1 line
this is my last commit for lab3
```