

COMP 2355
Winter 2013
Lab #17
March 7, 2013

This lab should be submitted to your course SVN by noon on March 8 in a folder named “Lab17”.

In this lab you will practice using C++ classes by writing a string class by filling in the functions in the code below. Note that when you concatenate strings you will need to allocate a large storage for holding the new string. Be sure to handle the case of self assignment as well.

```
class MyString {
public:
    MyString();
    ~MyString();
    MyString(const char *aString);
    MyString(const MyString &copyMe);

    MyString &operator+=(const MyString &s);
    MyString operator+(const MyString &s);
    MyString &operator=(const MyString &copyMe);

    const char *c_str() const;
    int length();
private:
    char *storage;
    int strLength;
};

std::ostream& operator<<(std::ostream &out, const MyString &f);
```