Nick Alvarez

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Project 7

The purpose of this program is to demonstrate how dynamic memory allocation works. Like the last few projects, the real end result of this program was having it be run through a test driver and seeing the output, and specifically how classes call the methods and allocate the memory.

Since the assignment was filling out a class source file, it only involved designing methods that fit the assignment parameters. I started with simple implementations, like the insertion operator overload, constructors, and the destructor. Next came memory allocation methods, which were fairly simple once I thought about it, and how memory allocation really worked. It was really just the size of the string being sent in. The addition operator overload was the most difficult in my opinion. But, I just needed to deallocate the memory and reallocate it with enough space for the concatenated string.

Errors faced when compiling were mostly syntax. I forgot to specify a member variable in the addition operator overload and the compiler almost melted down. Other issues involved one too few parentheses in a function and adding MyString:: to a friend function. Mostly simple fixes, which I was grateful for.

Design was fine, and I implemented some rudimentary error checking in the buffer\_allocate function. The program does what it should do so I do not think there is much more to include.