cis15-ozgelen, assignment VI

instructions

- Create a mail message addressed to **ozgelen@sci.brooklyn.cuny.edu** with the subject line **cis15 hw6**.
- Attach ONLY the **.cpp** source code file ($< yourname > \_hw6.cpp$) created below

description

For this assignment, you will write a program with two functions that help you explore **recursion**.

a. printing a string

Create a file called **hw6.cpp**. In it, write a program that prompts the user to enter a string, reads the string and stores it as an array of `char`, then displays it, one character at a time.

Design requirements:

- Create a class called `mystring`, which contains a private member that is an array of `char`, a constructor that initializes the private member `char` array, and a recursive function called `print()`.
- You MUST use recursion for `print()`!
- If you want, you may create separate files **mystring.cpp** and **mystring.h** for defining the class, or you can keep it all in one file—that's up to you.

Compile, link and run your code. Test it to make sure it works robustly.

b. printing it backwards

Modify **hw6.cpp** to include another recursive function in your class called `printback()` that prints out the string backwards. In other words, if I enter the string: `HELLO`, then the program should output: `OLLEH`.

- As above, you MUST use recursion for printing the string.

Compile, link and run your code. Test it to make sure it works robustly.