# Week 2 Exercises Submit

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#### Exercise code:

https://github.com/sandraleeusc/csci104\_fall2020\_lecture

## Str class mimics the C++ string class, str.h and str.cpp

- Properly handle memory allocation
- Practice treating string like an array using '[i]' indexing
- Practice comparison on string objects with '==' and other operators, etc.
- You may use old C string libraries <cstring> to help you
- To get the address stored in a unique\_ptr, use the get() function

#### The code for tracing is available here:

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## Trace the output of functiontrace.cpp

- The output is in function\_trace\_output
- You need to understand what function is being called on each line and why.
- You should understand what function printed each statement.
  Other functions are called that do no print anything.
- You can add print statements to standard error, cerr
- To compile: g++ --std=c++17 -o test functiontrace.cpp
- To run and redirect standard error to a file:
- ./test 2> testing\_outputfile

- 1. Write operator+= for Str
- 2. Be able to trace strtest.cpp and indicate every function being called on each line.
- 3. For functiontrace.cpp, change the code in order to experiment with when constructors, destructors, and copy assignment operators are called.