# Shared Review Doc for Midterm 2 (will be posted on Canvas Friday evening)

## Schedule reminders

* Monday: Review + project work time
* Wednesday: Review + lab work time
* Thursday: Midterm 2 **take-home**. Harrison and I will be available during class time to help with project 2 questions
* Friday: NO CLASS (Senior Project Review Day), your programming project 2 due at end of day

## Programming assignment questions

## Exam format questions

* Same format as midterm 1: multiple choice, true/false, short answer
  + I may ask you to read code
  + I may ask you to write ~1-2 lines of code
* Is this midterm cumulative?
  + 2/3 focused on new material (since midterm 1)
  + 1/3 covering all the material so far

## Exam topic questions

* Functions
  + Prototypes
  + Definitions
  + Function calls
  + Pass by value & pass by reference
* Arrays + Vectors
  + Swapping values between different indexes in an array
  + Swapping values between different arrays
  + Parallel arrays
  + Nested arrays + vectors
    - “2D” arrays
* Classes + Objects
  + Access modifiers
    - Public, Private
  + Other modifiers
    - Fields can be const, or static (methods can be too)
  + Methods
    - Setters (Mutators), Getters (Accessors)
    - Constructors
  + Fields
  + Namespaces
    - Example: “std::” in “std::string”

Old topics

* Ofstream, ifstream