CSCI 262
Data Structures
1 - Introduction

Introductions
Instructor (Sections A & R01) & Coordinator:
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Introductions
Instructor (Sections B, C, R02, R03 & R04):
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What This Semester Is About
Learning objectives:
• Know basic data structures
• Understand and use (most of) C++ features
• Understand performance of algorithms

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Learning objectives:
• Know basic data structures
• Understand and use (most of) C++ features
• Extensions to stuff you already know
• Pointers & dynamic memory management
• Templates
• Inheritance
• Understand performance of algorithms
What This Semester Is About

Learning objectives:
- Know basic data structures
- Understand and use (most of) C++ features
- **Understand performance of algorithms**
  - How computer scientists measure performance
  - How to analyze performance of an algorithm
  - Performance of algorithms and data structure operations

Course Information

All course info is on the web at:
https://cs-courses.mines.edu/csci262/spring2019/

Lecture notes and assignments will be added regularly, so please check the site frequently!

We will also use Piazza for much of our communications (rather than Canvas), so it is important that you are on Piazza. It is linked from the course website.

Welcome Back

What you learned in CSCI 261 (or equivalent):
- Variables
- Types
- Arrays
- Expressions
- Conditionals
- Branches & Loops

You remember all of this, right? 😊

Up Next

- Today and Thursday: Review Material
- Please skim/review chapters 1 – 6, 7.7, 8, 9.1 – 9.9, and 9.11 in your textbook
- Friday, January 11:
  - Lab 1 – Compile
  - APT 1 assigned
  - Reading: Chapter 7.1 and optionally Appendix F
- TBA (tentative: 6pm Thursday, 3pm Sunday)
  - (Optional) Transitioning from Java to C++ sessions