Unit 3: Pointers & Dynamic Memory Allocation

Outline:

• The Address Operator
• Pointer Variables
• Dereferencing operator
• Initializing Pointers
• Pointers and Arrays
• Pointer Arithmetic
• Comparing Pointers
• Pointers as Function Parameters
• Dynamic Memory Allocation: new + delete
• Returning Pointers from Functions

References:

• Gaddis: Chapter 9 (9.1-9.9)

Practice Problems:

• Gaddis, Chapter 9, Programming Challenges:
  2 Test Scores #1
  3 Drop Lowest Score (use pointers rather than array subscripts).
  5 Pointer Rewrite
  10 Reverse Array
  11 Array Expander