

## 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