

### Functions

- Know the structure, be able to code
- Determine parameter communication mechanism and access scope

### Machine Arithmetic

- Know the standard 32 bit int & real representations and range
- Be able to distinguish between: Truncation, Rounding, Underflow, Overflow Cancellation, and Representational Errors

### Recursion

- Know how to trace and code simple recursive functions

### Enumerated Types

- Be able to compose and use
- Know integer mapping

## Arrays (linear and two dimensional)

- Be able to compose, initialize, access (index), code, and pass
- Know how to use arrays of char as strings

## Structures (Records)

- Be able to compose, initialize , access, perform operation upon fields, and manipulate
- Know how to create arrays of structures and hierarchical structures

## Searching

- Be able to code and trace linear and binary searches

## Sorting

- Be able to trace Bubble sort, Selection sort
- Know how to code a selection sort