CS 105

Exam 2 Topics/Review

Topics:

1. For loops
2. While loops
3. Strings
4. Functions
   a. Parameters (inputs)
   b. Return values (outputs)
      i. Multiple output values

Skills:

1. Write pseudocode
2. Convert pseudocode to Matlab code
3. Write and use custom functions
4. Trace algorithms/code for a given input
5. Solve a problem by writing a program
6. Parsing Strings

Example Problems:

1. Sum an array
   a. for loop
2. Compute the mean and standard deviation of an array
   a. for loop
3. Sequential Search
   a. for loop
4. Selection or Bubble Sort
   a. Double for loop
5. Print Squares of Even ints
   a. for loop
6. Calculate n!
   a. for loop (with if cases)
7. From user input, compute algebraic and geometric means
   a. while loop