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BCEE 231 – Lecture 4 Fully Solved Exam-Style Questions Loops & Vectorization in MATLAB

- 1) Explain the difference between a for loop and a while loop.
Solution: A **for loop** is a counted loop and is used when the number of iterations is known in advance. A **while loop** is a conditional loop and is used when the number of iterations is unknown and depends on a condition becoming false. Example: using a for loop to read 5 values, and a while loop to keep asking for input until a valid value is entered.
- 2) Write a for loop that asks the user to enter 5 numbers and computes their average.
Solution: Initialize a sum variable to zero. Use a for loop from 1 to 5 to read user input and add it to the sum. After the loop, divide the sum by 5 to compute the average.
- 3) Why is preallocating vectors important in MATLAB?
Solution: Preallocating vectors improves performance because MATLAB does not need to resize the vector at each iteration. Dynamic resizing is slow, especially inside loops. Preallocation leads to faster and more memory-efficient code.
- 4) Write a script that stores user inputs in a vector until a negative number is entered.
Solution: Use a while loop that continues as long as the input is non-negative. Each valid input is stored in a vector. The loop stops when the user enters a negative number.
- 5) Given a matrix A, compute the sum of positive values in each row using nested loops.
Solution: Use an outer loop to iterate through rows and an inner loop to iterate through columns. Inside the inner loop, check if the element is positive before adding it to the row sum.
- 6) Rewrite a loop that multiplies every element of a vector by 4 using vectorized code.
Solution: Instead of looping, multiply the vector directly by the scalar: $v = v * 4$. This approach is faster, shorter, and preferred in MATLAB.
- 7) What happens if the condition of a while loop is false the first time it is evaluated?
Solution: The body of the while loop is not executed at all, and the program continues with the next statement after the loop.
- 8) Explain how tic and toc are used.
Solution: The function tic starts a timer and toc stops it and displays the elapsed execution time. They are used to compare the performance of different implementations of code.
- 9) Identify a common error when using nested loops with matrices.
Solution: A common error is allowing loop indices to exceed the matrix dimensions, which causes indexing errors. This usually happens when incorrect limits are used in the for loop.
- 10) True or False: For loops are always the most efficient way to process vectors in MATLAB.
Solution: False. MATLAB is optimized for vectorized operations. Built-in functions and operators are usually much faster and more efficient than loops when working with vectors and matrices.

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NEW QUESTION # 139

Spheroidization and graphitization are competing mechanisms that occur at overlapping temperature ranges. Spheroidization tends to occur preferentially above _____ while graphitization predominates below this temperature.

- **A. 1025° F**
- B. 1100° F
- C. 1050° F
- D. 1000° F

Answer: A

NEW QUESTION # 140

For some materials such as titanium, carbon steel and low alloy steel, the number of cycles to fatigue fracture decreases with _____ until an endurance limit is reached. Below this endurance limit, fatigue cracking will not occur, regardless of the number of cycles.

- A. Pressure decreases
- B. None of the above
- C. Temperature increases
- **D. Stress endurance**

Answer: D

NEW QUESTION # 141

High temperature hydrogen attack results from exposure to hydrogen at elevated temperatures and pressures. The hydrogen reacts with _____ in steel to produce _____, which cannot diffuse through the steel. The loss of carbides causes an overall loss in strength.

- A. Carbides, methane
- B. Carbides, oxygen
- C. Alloys, hydrogen dioxide
- D. Hydrogen dioxide, H₂S

Answer: A

NEW QUESTION # 142

Stress levels and _____ are the critical factors causing carbonate stress corrosion cracking.

- A. Velocity
- B. Water chemistry
- C. Temperature
- D. None of the above

Answer: B

NEW QUESTION # 143

Cracking of dissimilar weld metals occurs in the _____ side of a weld joining 300 Series SS and carbon steel.

- A. Both of the above
- B. Austenitic
- C. Ferritic
- D. None of the above

Answer: C

NEW QUESTION # 144

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