

MATLAB Quiz 6

Total points 10/10

The respondent's email (amlali98eg@gmail.com) was recorded on submission of this form.

✓ 1: What is the purpose of a while loop in MATLAB? *

1/1

- ☐ a) To create a conditional statement
- ☐ b) To execute a block of code a fixed number of times
- ☒ c) To repeat a block of code as long as a condition is true
- ☐ d) To execute a block of code exactly once



✓ Which section of a while loop gets evaluated in each iteration? *

1/1

- ☐ a) The code inside the loop
- ☒ b) The loop condition
- ☐ c) The code outside the loop
- ☐ d) None of the above



✓ What is a common use case for a while loop in MATLAB? * 1/1

- ☐ a) To generate random numbers
- ☐ b) To create a function
- ☒ c) To repeatedly execute a block of code until a condition is met ✓
- ☐ d) To perform matrix multiplication

✓ In MATLAB, what is the purpose of a switch statement? * 1/1

- ☐ a) To switch between different MATLAB versions
- ☐ b) To switch the orientation of a plot
- ☒ c) To execute different code blocks based on the value of an expression ✓
- ☐ d) To turn the MATLAB session on or off

✓ Which of the following best describes the behavior of a switch statement *1/1 in MATLAB?

- ☒ a) It matches a value to a single specific case and executes its code block. ✓
- ☐ b) It matches a value to multiple cases and executes all corresponding code blocks.
- ☐ c) It only allows for the comparison of numeric data types.
- ☐ d) It can only be used inside a for loop.



✓ How does a switch statement handle cases that don't match any of the provided options? *1/1

- ☐ a) It generates an error and stops execution.
- ☒ b) It executes the code block of the otherwise case. ✓
- ☐ c) It automatically adds a new case for unmatched values.
- ☐ d) It ignores the unmatched values.

✓ In a while loop, what happens if the loop condition is initially false? * 1/1

- ☐ a) The loop is executed once, and then it terminates.
- ☒ b) The loop never executes. ✓
- ☐ c) An error is generated.
- ☐ d) MATLAB automatically changes the condition to true.

✓ What statement is typically used within a while loop to control the flow and exit the loop? *1/1

- ☒ a) break ✓
- ☐ b) return
- ☐ c) end
- ☐ d) continue



✓ What is the primary advantage of using a switch statement over a series of if and else if statements in MATLAB? *1/1

- ☐ a) The ability to handle multiple conditions simultaneously
- ☐ b) Improved code readability and maintainability
- ☒ c) Enhanced performance and speed
- ☐ d) Better memory utilization



✓ Which of the following data types can be used as expressions within a switch statement in MATLAB? *1/1

- ☐ a) Only numeric data types
- ☐ b) Only string data types
- ☒ c) Numeric, string, and cell data types
- ☐ d) Numeric, string, and logical data types



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