44 Lecture - CS201

Important Mcqs

1. What is a matrix class in programming?

- A) A data structure that represents a collection of integers
- B) A programming construct that encapsulates the properties and behaviors of matrices
- C) A set of mathematical functions for manipulating matrices
- D) A type of programming language syntax

Answer: B

2. What kind of operations are typically included in a matrix class?

- A) String concatenation and splitting
- B) Looping and branching
- C) Matrix addition, multiplication, transposition, and determinant finding
- D) File I/O and network communication

Answer: C

3. Why is a matrix class useful in programming?

- A) It simplifies the implementation of matrix operations in programs
- B) It allows programmers to manipulate matrices with ease
- C) It promotes code reuse and modularity
- D) All of the above

Answer: D

4. What are some typical member variables of a matrix class?

- A) Dimensions and element values
- B) String and integer values
- C) Boolean and float values
- D) Time and date values

Answer: A

5. What is the purpose of encapsulation in a matrix class?

- A) To hide the implementation details of the class
- B) To allow external access to the class's member variables
- C) To expose the class's internal workings to other classes
- D) None of the above

Answer: A

- 6. Which of the following is an example of a matrix operation that can be performed in a matrix class?
 - A) Sorting the elements of a matrix in ascending order

- B) Removing duplicate elements from a matrix
- C) Transposing a matrix
- D) Merging two matrices into one

Answer: C

- 7. Which of the following is a benefit of using a matrix class in programming?
 - A) It can make programs more efficient by optimizing matrix operations
 - B) It can help catch errors in matrix calculations
 - C) It can make programs easier to read and understand
 - D) All of the above

Answer: D

- 8. How do matrix classes differ from other programming constructs?
 - A) They are a type of loop construct
 - B) They are a type of branching construct
 - C) They are a type of data structure
 - D) They are a type of function

Answer: C

- 9. Which of the following is an example of a matrix class method for accessing the elements of a matrix?
 - A) get_element()
 - B) add_element()
 - C) delete_element()
 - D) count_elements()

Answer: A

- 10. Which of the following is an example of a matrix class method for modifying the elements of a matrix?
 - A) get_element()
 - B) add_element()
 - C) delete_element()
 - D) set_element()

Answer: D