# 11 Lecture - CS304

## **Important Mcqs**

- 1. In which scenario would you use a constant member function?
  - a. When you want to modify the object
  - b. When you want to ensure that the object cannot be modified
  - c. When you want to improve performance
  - d. Both b and c

Answer: d

# Which of the following is an example of a scenario where constant member functions would be useful?

- a. Implementing a class that represents a car
- b. Implementing a class that represents a mathematical vector
- c. Implementing a class that represents a text editor
- d. Implementing a class that represents a video game character

Answer: b

### Can a constant member function modify the state of the object it is called on?

- a. Yes
- b. No

Answer: b

#### What is the benefit of using constant member functions?

- a. They allow you to modify the object
- b. They improve performance
- c. They ensure that the object cannot be modified
- d. They allow you to access private member variables

Answer: c

## Which keyword is used to declare a member function as constant?

- a. const
- b. static
- c. virtual
- d. volatile

Answer: a

# Which of the following is an example of a constant member function for a class representing a mathematical vector?

- a. void setX(double x)
- b. double getX() const
- c. double length()
- d. void normalize()

Answer: b

What is the purpose of a constant member function for a class representing a

#### mathematical vector?

- a. To modify the vector
- b. To return the length of the vector
- c. To normalize the vector
- d. To ensure that the vector cannot be modified

#### Answer: d

# Which of the following is an example of a scenario where constant member functions would not be useful?

- a. Implementing a class that represents a bank account
- b. Implementing a class that represents a calendar event
- c. Implementing a class that represents a temperature sensor
- d. Implementing a class that represents a musical instrument

#### Answer: d

### What is the return type of a constant member function?

- a. void
- b. int
- c. double
- d. Depends on the implementation

#### Answer: d

### Can you call a non-constant member function from a constant member function?

- a. Yes
- b. No

#### Answer: b