

34 Lecture - CS304

Important Mcqs

1. **What are generic algorithms in programming?**

- a. Algorithms that work with a specific data type only
- b. Algorithms that work with any data type
- c. Algorithms that are optimized for performance

Answer: b

In which programming paradigm are generic algorithms commonly used?

- a. Object-oriented programming
- b. Procedural programming
- c. Functional programming

Answer: a

What is the main advantage of using generic algorithms?

- a. Improved performance
- b. Increased code complexity
- c. Reusability and adaptability of code

Answer: c

Which programming languages support generic algorithms?

- a. C++
- b. Java
- c. Python
- d. All of the above

Answer: d

Can generic algorithms be used with user-defined data types?

- a. Yes
- b. No

Answer: a

What is the syntax for using generic algorithms in C++?

- a. < >
- b. { }
- c. ()

Answer: a

Which standard library in C++ provides support for generic algorithms?

- a. stdio.h
- b. iostream
- c. algorithm

Answer: c

What is the purpose of the `std::sort` algorithm in C++?

- a. To sort elements in ascending order

- b. To sort elements in descending order
- c. To remove duplicate elements

Answer: a

Which of the following is an example of a generic algorithm?

- a. Bubble sort
- b. Quick sort
- c. Binary search

Answer: c

What is the main disadvantage of using generic algorithms?

- a. Limited applicability to specific data types
- b. Reduced performance compared to specialized algorithms
- c. Increased code complexity

Answer: b