

38 Lecture - CS304

Important Mcqs

1. **What is function template overloading in C++?**

- A) Creating multiple functions with the same name and argument types
- B) Creating multiple functions with the same name but different argument types
- C) Creating a single function that can be used with different data types
- D) Creating a single function with multiple return types

Answer: B

How is function template overloading achieved in C++?

- A) By defining multiple functions with different names
- B) By defining multiple functions with different return types
- C) By defining a single function with multiple argument types
- D) By defining a function template with placeholders for argument types

Answer: D

What is the purpose of function template overloading in C++?

- A) To reduce the number of functions in a program
- B) To create more complex functions
- C) To improve code flexibility and reusability
- D) To improve program performance

Answer: C

Can function templates be overloaded based on the return type?

- A) Yes
- B) No

Answer: B

What is the difference between function overloading and function template overloading?

- A) Function overloading is limited to a single data type, while function template overloading allows for multiple data types.
- B) Function template overloading is limited to a single data type, while function overloading allows for multiple data types.
- C) Function overloading creates multiple functions with the same name and argument types, while function template overloading creates multiple functions with the same name but different argument types.
- D) There is no difference between function overloading and function template overloading.

Answer: C

Can function templates be overloaded based on the number of arguments?

- A) Yes
- B) No

Answer: A

Which of the following is an advantage of function template overloading?

- A) It makes the code more complex

- B) It makes the code less flexible
- C) It improves code flexibility and reusability
- D) It improves program performance

Answer: C

Can function templates be overloaded based on the constness of the arguments?

- A) Yes
- B) No

Answer: A

Which of the following is true regarding function template overloading in C++?

- A) Only one function template can be defined for a given set of argument types
- B) Multiple function templates can be defined for a given set of argument types
- C) Function template overloading is not supported in C++
- D) Function template overloading is only supported for built-in data types

Answer: B

Can function templates be overloaded based on the type of argument?

- A) Yes
- B) No

Answer: A