

19 Lecture - CS301

Important Subjective

- 1. What is the purpose of the const keyword in programming?**
Answer: The const keyword is used to declare variables that cannot be modified once they are initialized.
- 2. Why is using const variables beneficial in a program?**
Answer: Using const variables can help prevent bugs and improve program stability.
- 3. Can const variables be modified after they are initialized?**
Answer: No, const variables cannot be modified after they are initialized.
- 4. What happens if you try to modify a const variable in C++?**
Answer: The compiler generates an error.
- 5. Is the const keyword required when passing a variable by reference in C++?**
Answer: Yes, the const keyword is required when passing a variable by reference in C++.
- 6. Can a member function of a C++ class be declared as const?**
Answer: Yes, a member function of a C++ class can be declared as const.
- 7. What is the difference between a const pointer and a pointer to a const variable in C++?**
Answer: A const pointer is a pointer that cannot be modified to point to a different memory address, while a pointer to a const variable is a pointer that cannot be used to modify the value of the variable it points to.
- 8. Can a const variable be initialized with a value at runtime in C++?**
Answer: No, a const variable must be initialized with a value at compile-time in C++.
- 9. What are some examples of variables that are commonly declared as const in C++?**
Answer: Constants used in mathematical calculations, physical constants, and program-specific constants are all examples of variables that are commonly declared as const in C++.
- 10. Is the const keyword used in other programming languages besides C++?**
Answer: Yes, the const keyword is used in many programming languages besides C++.