

# C,C++

## 1.Introduction

- The C Language
- Advantages
- The Structure of a C Program
- Writing C Programs
- Building an Executable Version of a C Program
- Debugging a C Program
- Examining and Running a C Application Program

## 2.Data Types and Variables

- Data Types
- Operands, Operators, and Arithmetic Expressions

## 3.Input/Output Management

- The Input/Output Concept
- Formatted Input Function

## 4.Control-Flow Statements

- The Control-Flow Program Statements
- Looping Statements
- The Data-checking process

## 5.Modular Programming with Functions

- The C Function
- Passing Data to Functions

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- Passing an Address to Modify a Value in Memory
- Using Functions in the Checkbook Program
- C Standard Library Functions

## 6. Arrays, Pointers, and Strings

- Arrays, Pointers, Strings
- Using Arrays, Strings, and Pointers in the Checkbook Program

## 7. Structures

- Structures
- Arrays of Structures
- Passing Structures to Functions
- Nesting Structures

## 8. File Input/Output

- Command-line Arguments
- Combining Command-line

## 9. Introduction to C++

- Creating a project
- Writing, compiling and running a program

## 10. Variables and data types

- Expressions
- Constants
- Operators
- Type conversions

## 11. Looping constructs: while, do...while, for loops

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- If else statements
- Switch/case construct

## 12.Functions

- Passing arguments
- Function prototyping
- Default argument initializers
- Inline functions

## 13.Arrays

- Array initialisation
- Multi-dimensional arrays
- Character arrays
- Working with character strings

## 14.Storage Classes

- Global variables

## 15.Pointers

- Pointer and arrays
- Pointers to character strings
- Arrays of pointers
- Memory slicing
- Pointers to functions

## 16.C++ classes

- Data members and member functions
- Creating objects

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- The new and delete operators
- Friends to a class
- Class initialisation

## 17. Reference types

- Reference type arguments

## 18. Function overloading

- Operator overloading

## 19. Copy constructor

- Assignment operator

## 20. Template classes

- Static class members
- File streams

## 21. Inheritance

- Base classes and derived classes
- Inherited member access
- Base class initialisation
- Protected members of a class

## 22. Virtual functions

- Virtual destructors

## 23. Virtual base classes

- Virtual base class member access
- Constructor and destructor ordering

## 24. Exception handling

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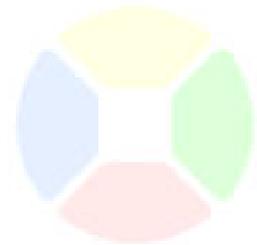
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- Ttry...throw...catch block
- Nested catch handlers



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