

**Chapter 1: Introduction**

You will learn:

- C Anonymous class types.
- C Nested class declarations.
- C Incomplete declarations.
- C Pointers to class members and member objects.
- C Conversion of pointers to classes.
- C Friend functions and declarations.
- C Templates.

**Chapter 2: Inheritance**

You will learn:

- C Virtual base classes.
- C Single inheritance.
- C Multiple inheritance.
- C Multiple base classes.

**Chapter 3: Overloading**

You will learn:

- C Overloaded functions and operators.
- C Argument type differences.
- C Restrictions on overloaded functions.
- C Declaration and argument matching.
- C Overloaded operators.
- C Function call.
- C Subscripting.
- C Class-member access.

**Chapter 4: File I/O**

You will learn:

- C I/O functions.
- C Text and binary mode file I/O.
- C Stream I/O functions.
- C Low-level I/O.
- C Console and Port I/O.
- C Directory-control routines.
- C File handling routines.
- C Buffer manipulation.
- C class streambuf.

**Chapter 5: Performance and Tuning**

You will learn:

- C `_alloca()`
- C `calloc()`
- C `malloc()`
- C `free()`
- C `realloc()`
- C `_heapadd()`
- C `_heapchk()`
- C `_heapmin()`
- C `_heapset()`
- C `_heapwalk()`
- C operator new function.
- C Handling insufficient memory conditions.

**Chapter 6: Advanced Topics**

You will learn:

- C Inline Assembler.
- C Variable argument lists.
- C Enumeration declarations.

