# Introduction to Programming with C++

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INTRODUCTION TO PROGRAMMING WITH



Third Edition

Contents are based on book by Y. Daniel Liang

- Programming Languages
- Machine Language
- Assembly Language
- High-Level Language
- Interpreter
- Compiler
- The object-oriented programming language
- Preprocessor directive
- The header file
- Pound sign
- Angle bracket

- Parenthese
- Slash
- Brace
- Asterisk

- Algorithm
- Pseudocode
- Prompt
- The integer data type
- The floating-point data type
- Assignment statements
- Assignment expressions
- Numeric literals
- Numeric operators
- Exponent operations

- Augmented assignment operators
- Increment and Decrement Operators
- Prefix and postfix
- Numeric Type Conversions

- The bool Data Type
- logical negation
- logical conjunction
- logical disjunction
- The switch statement
- The conditional expressions
- Operator Precedence
- & ampersand
- ! exclamation mark
- I vertical bar, pipe

- The character data type
- The character literal
- The string literal
- ASCII Code
- Stream manipulator

• Loop

- instance
- constructor
- Binary scope resolution operator
- Data Field Encapsulation
- class encapsulation

• defensive programming