CE103 Algorithms and Programming I

C++ Functional Console Programming

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3.1 Books and Resources

free-programming-books/free-programming-books-langs.md at master $\,\cdot\,$ EbookFoundation/free-programming-books $\,\cdot\,$ GitHub 4

4 C++ Functional Console Programming

We will follow the following topics

• Learn C++ Programming⁵

 $^{^{1}}$ ce103-week-6-cpp.en.md_doc.pdf

 $^{^2}$ ce103-week-6-cpp.en.md_slide.pdf

³ce103-week-6-cpp.en.md_slide.pptx

 $^{^4} https://github.com/EbookFoundation/free-programming-books/blob/master/books/free-programming-books-langs.md~\#c-1$

⁵https://www.programiz.com/cpp-programming

- Introduction to C++ | C Plus Plus Programming Language Tutorials⁶
- The C and C++ programming tutorials, hands-on approach with program examples, code samples and tons of output images using Visual C++, C++ Builder, Linux gcc and g++ compilers and IDE⁷
- 1. Cpp Programming
- a. C++ Introduction
- b. C++ Variables and Literals
- ii. C++ Data Types
- iii. C++ Basic I/O
- iv. C++ Type Conversion
- 1. C++ String to Int and Vice-Versa
- 2. C++ String to Float, Double and Vice-Versa
 - v. C++ Operators
 - vi. C++ Comments
- b. C++ Flow Control
- c. C++ if..else
- ii. C++ for loop
- iii. C++ do..while loop
- iv. C++ break statement
- v. C++ continue statement
- vi. C++ switch statement
- vii. C++ goto statement
- viii. C++ Functions
- ix. C++ Functions
- x. C++ Function Types
- xi. C++ Function Overloading
- xii. C++ Default Argument
- xiii. C++ Storage Class
- xiv. C++ Recursion
- xv. C++ Return Reference
- xvi. C++ Arrays & String
- xvii. C++ Arrays
- xviii. Multidimensional Arrays
- xix. C++ Function and Array
- xx. C++ String
- e. C++ Structures
- f. C++ Structures
- ii. Structure and Function

 $^{^6 {\}rm http://www.btechsmartclass.com/cpp-programming/index.php}$

⁷https://www.tenouk.com/cncplusplustutorials.html

- iii. C++ Pointers to Structure
- iv. C++ Enumeration
- f. C++ Object & Class
- g. C++ Objects and Class
- ii. C++ Constructors
- iii. C++ Objects & Function
- iv. C++ Operator Overloading
- g. C++ Pointers
- h. C++ Pointer
- ii. C++ Pointers and Arrays
- iii. C++ Pointers and Functions
- iv. C++ Memory Management
- h. C++ Inheritance
- i. C++ Inheritance
- ii. Inheritance Access Control
- iii. C++ Function Overriding
- iv. Multiple & Multilevel Inheritance
- v. C++ Friend Function
- vi. C++ Virtual Function

C++ Templates