

Useful Resources for C++ Programming Language

Online C++ Compiler

- 01. Online C++ Compiler online editor (onlinegdb.com)
- 02. Online Code Editors, Compilers & Playground | Sololearn
- 03. Online C++ Compiler (programiz.com)
- 04. Online C++ Compiler (tutorialspoint.com)
- 05. C++ Online Compiler (Editor / Interpreter) (w3schools.com)
- 06. <u>C++ Shell (cpp.sh)</u>
- 07. <u>C++ Online Compiler & Interpreter Replit</u>
- 08. Online C++ Compiler Online C++ Editor Run C++ Online Online C++ Runner (jdoodle.com)
- 09. C++ OneCompiler Write, run and share C++ code online
- 10. Online C++ Compiler | Online C++ Editor Scaler Topics
- 11. Online C/C++ Compiler Techie DelightOnline C / C++ Compiler (online-cpp.com)
- 12. Online C++ Compiler myCompiler
- 13. Online C++ compiler and IDE API provided by Sphere Engine Ideone.com
- 14. Online C++ Compiler (online-cpp.com)
- 15. Online C++ Compiler Coding Ninjas Codestudio
- 16. Compiler Explorer (godbolt.org)
- 17. compile c++ gcc online (rextester.com)
- 18. Online C++ compiler | Online editor and compiler (paiza.io)
- 19. C++ Online Compiler and Editor (IDE) workat.tech
- 20. Online C++ Compiler (geekflare.com)
- 21. Compile and run the code with online compiler and IDE | CodeChef
- 22. C++ Online IDE, Compiler, Interpreter & Code Editor (codeanywhere.com)
- 23. Online C++ Compiler | Run C++ Online CodeSpeedy
- 24. C++ Online Compiler GeeksforGeeks
- 25. Online C++ IDE OnlineIDE (online-ide.com)
- 26. C++ Online IDE | C++ Online Compiler | MYTAT
- 27. Online C/C++ Compiler Techie Delight

Coding Practice

- 01. LeetCode The World's Leading Online Programming Learning Platform
- 02. Competitive Programming | Participate & Learn | CodeChef
- 03. Coderbyte | Technical Assessments & Interviews
- 04. Home | Codewars
- 05. Coding Games and Programming Challenges to Code Better (codingame.com)
- 06. HackerRank
- 07. Technical Assessment & Code Challenge Platform | Geektastic
- 08. About Project Euler
- 09. Sphere Online Judge (SPOJ)
- 10. Top Website Designers, Developers, Freelancers for Your Next Project | Topcoder
- 11. GeeksforGeeks | A computer science portal for geeks

Introduction to C++ Programming Language - Coding Examples

- 01. <u>C++ Examples | Programiz</u>
- 02. C++ Questions and Answers (tutorialspoint.com)
- 03. Solve C++ | HackerRank
- 04. C++ Examples (codebind.com)
- 05. 250 C++ Program Examples & Solutions | Techstudy
- 06. C++ Basic Exercises, Practice, Solution w3resource
- 07. "Examples" C++ Search results (cplusplus.com)
- 08. C++ Tutorial Learn C++ Programming with examples (beginnersbook.com)
- 09. Top 10 C++ Projects Ideas for C++ Beginners in 2023 [Updated] (hackr.io)
- 10. <u>An Introduction to C++ Programming for First-time Programmers C++ Programming Tutorial (ntu.edu.sg)</u>
- 11. C++ Overview (uhcl.edu)

Extra Resources: Data Structure – Coding Examples

- 01. Data Structures in C++ Part 1. Implementing common data structures in... | by Vijini
- Mallawaarachchi | Towards Data Science
- 02. <u>C++ | Data Structures Code Examples (happycodings.com)</u>
- 03. Stack Data Structure In C++ With Illustration (softwaretestinghelp.com)
- 04. https://cplusplus.com/doc/tutorial/structures/
- 05. C++ Data Structures (tutorialspoint.com)
- 06. 9 C++ data structures you need to know for your coding interview (educative.io)
- 07. fullText.pdf (clemson.edu)
- 08. Data Structures in C++ TechVidvan
- 09. Data Structure Programs using C and C++ Solved Data Structure Programs (includehelp.com)
- 10. Stack Data Structure and Implementation in Python, Java and C/C++ (programiz.com)
- 11. C++ Tutorial: Linked List 2020 (bogotobogo.com)
- 12. Hash Table in C/C++ A Complete Implementation | DigitalOcean
- 13. C++ STL: Policy based data structures Codeforces
- 14. <u>Abstract Data Types in C++ Programming and Data Structures 0.2 documentation</u> (eecs280staff.github.io)
- 15. Data Structures in C++ Sanfoundry
- 16. <u>Arrays as Data Structure in C/C++ Programming MYCPLUS C and C++ Programming</u> Resources
- 17. Algorithms and data structures in C/C++ Cprogramming.com
- 18. C++ for Programmers: C++'s Built-In Data Structures Cheatsheet | Codecademy
- 19. <u>Data Structures and Algorithms Problems in C++ using STL | by Coding Freak | Techie Delight |</u>
 Medium
- 20. Implementation of A* (redblobgames.com)
- 21. Red Black Trees (with implementation in C++, Java, and Python) | Algorithm Tutor
- 22. <u>Chapter 7. Designing lock-free concurrent data structures C++ Concurrency in Action: Practical Multithreading (manning.com)</u>
- 23. C++ Structures (struct) (w3schools.com)
- 24. Implementing Binary tree in C++ (opengenus.org)
- 25. Section 1: C++ data structures CS 61 2021 (harvard.edu)
- 26. Linked List Data Structure (programiz.com)
- 27. Sets in C++ Explained with Examples | Udacity

28. Top 50+ Data Structure Interview Questions and Answers (2022) - InterviewBit

Extra Resources: Algorithm – Coding Examples

- 01. C++ Algorithm | Examples of C++ Algorithm with Detail Explanation (educba.com)
- 02. C++ Basic Algorithm Exercises, Practice, Solution w3resource
- 03. The 114 standard C++ algorithms. Introduction | by Šimon Tóth | ITNEXT
- 04. Top 5 Beautiful C++ std Algorithms Examples CodeProject
- 05. C++ | Algorithms Code Examples (happycodings.com)
- 06. C++ Program for QuickSort GeeksforGeeks
- 07. Dijkstra's Algorithm in C++ | Shortest Path Algorithm | FavTutor
- 08. GitHub daancode/a-star: A* algorithm C++ implementation.
- 09. BFS Graph Algorithm(With code in C, C++, Java and Python) (programiz.com)
- 10. QuickSort (With Code in Python/C++/Java/C) (programiz.com)
- 11. Linear Search Algorithm with C++ Code | Data Structures & Algorithms Simple Snippets
- 12. Quick Sort In C++ With Examples (softwaretestinghelp.com)
- 13. Insertion Sort In C++ With Examples (softwaretestinghelp.com)
- 14. C++ Algorithms Sanfoundry
- 15. How to implement Dijkstra's Algorithm in C++ (educative.io)
- 16. Kmp Algorithm C++ With Code Examples (folkstalk.com)
- 17. Red Black Trees (with implementation in C++, Java, and Python) | Algorithm Tutor
- 18. https://cplusplus.com/reference/algorithm/
- 19. Dijsktra's Algorithm: C++, Python Code Example (guru99.com)
- 20. Algorithms library cppreference.com
- 21. C++ Source Codes (fsu.edu)
- 22. <u>Algorithms in C++</u>. Complete Search, Greedy, Divide and... | by Vadim Smolyakov | Towards Data Science
- 23. Dynamic Programming in C++ Cprogramming.com
- 24. Merge Sort Algorithms and Examples Merge Sort using Java, C++ (mygreatlearning.com)
- 25. C++ Core Guidelines (isocpp.github.io)
- 26. <u>C++17 in details: Parallel Algorithms C++ Stories (cppstories.com)</u>
- 27. A Genetic Algorithm Function Optimizer in C++ technical-recipes.com
- 28. Boruvka's algorithm for Minimum Spanning Tree in C++ CodeSpeedy
- 29. Crack the top 40 C++ coding interview questions (educative.io)

Extra Resources: Microcontroller – Coding Examples

- 01. C++ and microcontrollers: using and testing CodeProject
- 02. C++ on microcontrollers 1 introduction, and an output pin class Wouter van Ooijen (embeddedrelated.com)
- 03. C++ Tutorial: Embedded Systems Programming 2020 (bogotobogo.com)
- 04. How to Use C++ with STM32CubeIDE Shawn Hymel
- 05. C++ in Embedded Systems Part 1 | Embedded.com
- 06. C++ template metaprogramming for AVR microcontrollers Embedded.com
- 07. Embedded Software Development in Visual Studio Code C++ Team Blog (microsoft.com)
- 08. Get started with microcontrollers | TensorFlow Lite
- 09. hirakuni45/RX: Renesas RX Microcontroller, C++ framework, Library, Sample (github.com)
- 10. Step by Step Procedure for Pic Microcontroller Programming (elprocus.com)
- 11. A Technique for Register Access in C++ (accu.org)

- 12. Ten C++ Advantages over C in Embedded Systems | Stratify Labs
- 13. Step by Step Guide to Microcontroller Programming HardwareBee
- 14. 9. Embedded programming FabAleza (fabacademy.org)
- 15. "Bare Metal" STM32 Programming (Part 7): Embedded C++ Inheritance Vivonomicon's Blog
- 16. How to Program Raspberry Pi Pico using C/C++ SDK (circuitdigest.com)
- 17. Efficient C Code for 8-bit Microcontrollers (barrgroup.com)
- 18. Debug output on microcontrollers: how Concepts and Ranges put my printf to rest (pvs-studio.com)
- 19. SCT μConnect microcontroller support in YAKINDU Statechart Tools (itemis.com)
- 20. Embedded C/C++ Unit Testing Basics | Interrupt (memfault.com)
- 21. The Arduino Language in 10 Points The Robotics Back-End (roboticsbackend.com)
- 22. C++ On Embedded Systems | mbedded.ninja
- 23. Visual Studio Code for C/C++ with ARM Cortex-M: Part 1 Installation | MCU on Eclipse
- 24. Everything You Need to Know About Arduino Code (circuito.io)
- 25. TinyML: Getting Started with TensorFlow Lite for Microcontrollers (digikey.com)
- 26. Getting started with the GD32VF103 RISC-V Microcontroller | Georg's Log (gms.tf)
- 27. JavaScript for Microcontrollers and IoT: Part 1 (auth0.com)
- 28. 4. Outputs, Inputs, and Timers Making Embedded Systems [Book] (oreilly.com)
- 29. AVR-gcc.pdf (usc.edu)
- 30. MicroPython: An Intro to Programming Hardware in Python Real Python
- 31. Basics of Embedded C Program: Introduction, Structure and Example (electronicshub.org)
- 32. Easy Raspberry Pi Pico Microcontroller C / C++ Programming on Windows (paulbupejr.com)
- 33. Modern C++ in embedded development: using C libraries Semblie d.o.o Tuzla
- 34. Useful tips for learning embedded programming | Artekit Labs Tutorials
- 35. Microcontroller Programming | Sample Programs | Exercise (emertxe.com)
- 36. MicroPython Optimizes Python for Microcontrollers | ICS
- 37. C++ On Embedded Systems (bitbashing.io)
- 38. Programming PIC Microcontrollers: 10 Steps Instructables
- 39. C++ Templates for Embedded Code (Part 2) Lucky Resistor
- 40. <u>C-Code Tutorial for Using the SPI Interface on the MAX7456 On-Screen Display | Maxim Integrated</u>

Extra Resources: Operating System - Coding Examples

- 01. How to develop an operating system using C++ Articles (cplusplus.com)
- 02. GitHub wichtounet/thor-os: Simple operating system in C++, written from scratch
- 03. Writing OS Independent Code in C/C++ GeeksforGeeks
- 04. Writing your own Operating System | by Chamath Abeysinghe | Medium
- 05. Building your own operating system CodeProject
- 06. Archived | Building your own memory manager for C/C++ projects IBM Developer
- 07. ewili13 submission 14.pdf (upenn.edu)
- 08. Make a Simple Operating System: 11 Steps (with Pictures) Instructables
- 09. C++ Memory Management: new and delete (programiz.com)
- 10. C++ Tutorial: Memory Allocation 2020 (bogotobogo.com)
- 11. Why the C Programming Language Still Runs the World | Toptal
- 12. A hands-on Win32 Windows operating system programming used to understand the Windows OS internal construct, functionalities and technologies (tenouk.com)
- 13. Bare Bones OSDev Wiki
- 14. Programming Guide :: CUDA Toolkit Documentation (nvidia.com)
- 15. Memory Management in C++ | Examples to Implement (educba.com)

- 16. How to write a simple operating system in assembly language (sourceforge.net)
- 17. Linux Tutorial: POSIX Threads (cmu.edu)
- 18. high-level-cpp-rcu informatics 2017.pdf (martong.github.io)
- 19. Microsoft Word PortableSystems.doc (appinf.com)
- 20. ARM Compiler toolchain Using the Compiler Version 5.01
- 21. Operating Systems: Processes (uic.edu)
- 22. www2.hawaii.edu/~takebaya/ics111/process_of_programming/process_of_programming.html
- 23. Sharing memory between processes 1.54.0 (boost.org)
- 24. Practical Application for Operating Systems: Code for Schedule Processes | Study.com
- 25. Write your Own Virtual Machine (jmeiners.com)
- 26. Linux Serial Ports Using C/C++ | mbedded.ninja
- 27. Getting Started with the LLVM System LLVM 16.0.0git documentation
- 28. Unix And C/C++ Runtime Memory Management For Programmers (uohyd.ac.in)