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. C++ Shell (cpp.sh)
07. C++ Online Compiler & Interpreter - Replit
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. C++ Examples | Programiz
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. An Introduction to C++ Programming for First-time Programmers - C++ Programming Tutorial (ntu.edu.sg)
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. C++ | Data Structures Code Examples (happycodings.com)
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. Abstract Data Types in C++ — Programming and Data Structures 0.2 documentation (eecs280staff.github.io)
15. Data Structures in C++ - Sanfoundry
16. Arrays as Data Structure in C/C++ Programming – MYCPLUS - C and C++ Programming Resources
17. Algorithms and data structures in C/C++ - Cprogramming.com
18. C++ for Programmers: C++'s Built-In Data Structures Cheatsheet | Codecademy
19. Data Structures and Algorithms Problems in C++ using STL | by Coding Freak | Techie Delight | Medium
20. Implementation of A* (redblobgames.com)
21. Red Black Trees (with implementation in C++, Java, and Python) | Algorithm Tutor
22. Chapter 7. Designing lock-free concurrent data structures - C++ Concurrency in Action: Practical Multithreading (manning.com)
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

Extra Resources: <u>Algorithm – Coding Examples</u>

Extra Resources: <u>Microcontroller – Coding Examples</u>

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. [C-Code Tutorial for Using the SPI Interface on the MAX7456 On-Screen Display | Maxim Integrated](#)

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)](#)