

## “Exercices in C++ with the solution”

**Exercise 1:** Write a C++ program that prints the sum of the first 10 positive integers.

**Solution:**

```
#include <iostream>
```

```
int main() {  
    int sum = 0;  
    for (int i = 1; i <= 10; i++) {  
        sum += i;  
    }  
    std::cout << "The sum of the first 10 positive integers is: " <<  
sum << std::endl;  
    return 0;  
}
```

**Exercise 2:** Write a C++ program to check if a number is prime or not.

**Solution:**

```
#include <iostream>
```

```
int main() {
```

# C Programming Exercises With Solutions

**Richard Bailey**



## **C Programming Exercises With Solutions:**

*The C Answer Book* Clovis L. Tondo, Scott E. Gimpel, 1985      *Practical C Programming* Steve Oualline, 1997-08-01 There are lots of introductory C books but this is the first one that has the no nonsense practical approach that has made Nutshell Handbooks famous C programming is more than just getting the syntax right Style and debugging also play a tremendous part in creating programs that run well and are easy to maintain This book teaches you not only the mechanics of programming but also describes how to create programs that are easy to read debug and update Practical rules are stressed For example there are fifteen precedence rules in C comes before comes before The practical programmer reduces these to two Multiplication and division come before addition and subtraction Contrary to popular belief most programmers do not spend most of their time creating code Most of their time is spent modifying someone else s code This books shows you how to avoid the all too common obfuscated uses of C and also to recognize these uses when you encounter them in existing programs and thereby to leave code that the programmer responsible for maintenance does not have to struggle with Electronic Archaeology the art of going through someone else s code is described This third edition introduces popular Integrated Development Environments on Windows systems as well as UNIX programming utilities and features a large statistics generating program to pull together the concepts and features in the language      **C** Paul J. Deitel, Harvey M. Deitel, 2010 The Deitels groundbreaking How to Program series offers unparalleled breadth and depth of programming concepts and intermediate level topics for further study The books in this series feature hundreds of complete working programs with thousands of lines of code Includes strong treatment of structured algorithm and program development in ANSI ISO C with 150 working C programs New chapters added for C99 and game programming with the Allegro C Library Includes rich 300 page treatment of object oriented programming in C Presents each new concept in the context of a complete working program immediately followed by one or more windows showing the program s input output dialog Enhances the Live Code Approach with syntax coloring Provides Helpful Programming Tips all marked by icons Good Programming Practices Common Programming Errors Error Prevention Tips Performance Tips Portability Tips Software Engineering Observations Look and Feel Observations A valuable reference for programmers and anyone interested in learning the C programming language      **Intelligent Systems: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2018-06-04 Ongoing advancements in modern technology have led to significant developments in intelligent systems With the numerous applications available it becomes imperative to conduct research and make further progress in this field Intelligent Systems Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems Including innovative studies on information retrieval artificial intelligence and software engineering this multi volume book is an ideal source for researchers professionals academics upper level students and practitioners interested in emerging

perspectives in the field of intelligent systems

**Advanced Functional Programming** Johan Jeuring, Simon Peyton Jones, 2004-01-30 This tutorial book presents seven revised lectures given by leading researchers at the 4th International School on Functional Programming AFP 2002 in Oxford UK in August 2002 The lectures presented introduce tools language features domain specific languages problem domains and programming methods All lectures contain exercises and practical assignments The software accompanying the lectures can be accessed from the AFP 2002 Web site This book is designed to enable individuals small groups of students and lecturers to study recent work in the rapidly developing area of functional programming

*Teach Yourself C Programming in 21 Days* Peter G. Aitken, Bradley Jones, 1995 This book covers the basics of C including variables constants conditional statements loops pointers data structures input output and functions all presented in a logical and easy to follow sequence that helps readers really understand the principles involved in developing programs

**Pure C Programming** Amir Afzal, 1999 Easing students through a complete survey of the C programming language this consistently paced text begins with an introduction to the language at a level that is understandable by non C programmers progresses to intermediate level coverage then finishes off with more complex concepts with each topic building upon what precedes it Current accurate and rich with example programs and diagrams it uses a general purpose approach that gives students the freedom to apply the C programming to a variety of environments providing a solid foundation in the language that will enable them to move on to more advanced reference type books with confidence Accessible to non C C programmers Assumes only computer skills no programming skills A focus on pure C and C language concepts and syntax Not on programming design techniques program development methodologies specific business or science applications or any specific compilers or development environments Provides students with a solid C or C foundation so they can apply C C programming to a variety of environments and can move on to more advanced reference type books and compiler help facilities with ease

C Programming August Hansen, 1989 Bestselling C author Hansen has produced this highly accessible guide to C language that is appropriate for both beginners who want a clear authoritative introduction to C and experienced C programmers who want a well organized reference

*C Programming in 12 Easy Lessons* Greg M. Perry, 1994 This is the best book for beginning users of C programming language The book disk package not only gives the reader the instruction to start writing code in a short period of time it also supplies the compiler needed to generate that code The user does not need to buy any supplemental programs to begin programming instantly Two disks include the genuine Turbo C 2.0 compiler

*Applications Programming in ANSI C* Richard Johnsonbaugh, Martin Kalin, 1993

Introduction to C Programming C. Joseph Sass, 1994

**A First Book of ANSI C** Gary J. Bronson, 2007 This fourth edition of Gary Bronson's classic text implements the C99 standard in all discussion and example programs An early emphasis on software engineering and top down modular program development makes the material readily accessible to novice programmers Early introduction and careful development of pointers demonstrate the power of good programming

The new edition features a new Common Compiler Errors feature in each chapter and all material has been updated for currency and readability

**Applications Programming in C++** Richard Johnsonbaugh, Martin Kalin, 1999 Exceptionally organized and beautifully illustrated this state of the art guide to C programming is a must have for anyone who needs to learn the language Exploring C programming's most useful aspects as well as some of its more specialized parts it focuses on using the language to write practical programs based on sound design techniques

**KEY TOPICS** Presents the most up to date coverage of C available including a full section on STL standard template library and offers many well constructed examples useful self test exercises beautifully fashioned sample applications interesting and applicable programming exercises lists of common programming errors C Postscript sections that explain esoteric and less used parts of the language stunning illustrations and up to date features Includes a supplemental IBM format program disk a companion website contains the sourcecode header files and data files found on the disk as well as transparencies and an errata list

**Enhanced Expert Systems** Petrică Vizureanu, 2019-09-18 The theoretical approach of this book is to develop a primary survey of the knowledge representation model providing convergence of classical operations research and modern knowledge engineering This convergence creates new opportunities for complicated problems of formalization and solution by integrating the best features of mathematical programming or constraint programming This book explains in six chapters that expert systems are products in the field of computer science that attempt to perform as intelligent software What is outstanding for expert systems is the applicability area and the solving of different problems in many fields or industrial branches

**Preview Kit C Programming** Malik, 2002

**Small C++** Harvey M. Deitel, Paul J. Deitel, 2005 This new briefer edition of C How to Program follows all the extensive updates made to C How to Program Fifth Edition and offers readers a concise introduction to the basics of object oriented programming in C Small C features an early object and classes approach and covers the basics of object oriented programming including classes objects encapsulation inheritance and polymorphism Provides complete programming exercises along with numerous tips recommended practices and cautions all marked with icons for writing code that is portable reusable and optimized for performance The accompanying CD ROM includes all the source code from the book A useful brief reference for programmers or anyone who wants to learn more about the C programming language

**Computer Programming Exercises Appropriate for a Course in Intermediate Algebra** Rebecca Hammerman Lawrence, 1968

**C# Primer Plus** Klaus Michelsen, 2002 C Primer Plus teaches the C programming language and relevant parts of the .NET platform from the ground up walking you through the basics of object oriented programming important programming techniques and problem solving while providing a thorough coverage of C's essential elements such as classes objects data types loops branching statements arrays and namespaces In early chapters guided tours take you sightseeing to the main attractions of C and provide a fast learning path that enables you to quickly write simple C programs Your initial programming skills are then gradually expanded through the many examples case studies illustrations review questions and

programming exercises to include powerful concepts like inheritance polymorphism interfaces and exception handling along with C's most innovative features such as properties indexers delegates and events With C Primer Plus's dual emphasis on C as well as fundamental programming techniques this friendly tutorial will soon make you a proficient C programmer building Windows applications on the .NET platform

**Program Development and Design Using C++** Gary J. Bronson, 2006  
Based on A First Book of C by the same author this new edition uses a depth first linear progression guiding readers through procedural orientation object orientation and data structures Part I covers procedural basics Part II covers Object Oriented Programming in C and Part III explains how Data Structures are interchangeable allowing readers to familiarize themselves with these concepts in either order

**The C++ Answer Book** Tony L. Hansen, 1990 This book exposes the design portability and efficiency of C programs while solving the exercises found in the definitive C reference The C Programming Language by Bjarne Stroustrup Providing complete working solutions to each exercise and with strict attention to both efficiency and portability Hansen has produced an excellent source of tested usable and documented C code C was designed and implemented as a superset of C which retains the efficiency and notational convenience of C while providing facilities for type checking data abstraction operator overloading and object oriented programming Up to the minute revisions to the C language are discussed in the text specifically the latest modifications available through Release 2.0 of C translator the newest features to the C language since the publication of Stroustrup's book The C Answer Book includes numerous examples and a significant amount of code which will assist all programmers who want to expand their applications of the C language Therefore this text is essential reading for students and professional programmers interested in the latest developments in C and provides models especially helpful for those learning the language on their own

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