

# C++ Practice Exercises with solutions

## Control Structures

1. Consider the following program:

```
int x,y;
cin >> x >> y;
while(x!=0 && y!=0){
    if(x>y){
        x = x-y;
    }else if(x<y){
        y = y-x;
    }else y=0;
}
cout << x+y << endl;
```

What will this program print on the following inputs:

- a. 12 5
- b. 27 39
- c. -2 12
- d. 23 0

2. Write a function that takes as input a positive integer  $n$  and returns the  $n$ -th harmonic number. Reminder: the  $n$ -th harmonic number is equal to  $1+(1/2)+(1/3)+(1/4)+\dots+(1/n)$

**Solution:**

```
double harmonic(int n)
{
    int i; double res=0.0;
    for(i=1; i<=n; i++)
```

# C Programming Language Exercises Solutions

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## **C Programming Language Exercises Solutions:**

**The C Answer Book** Clovis L. Tondo, Scott E. Gimpel, 1985      **The C Answer Book** Clovis L. Tondo, 1985      **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      **Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2015-04-30 Educational pedagogy is a diverse field of study one that all educators should be aware of and fluent in so that their classrooms may succeed Curriculum Design and Classroom Management Concepts Methodologies Tools and Applications presents cutting edge research on the development and implementation of various tools used to maintain the learning environment and present information to pupils as effectively as possible In addition to educators and students of education this multi volume reference is intended for educational theorists administrators and industry professionals at all levels      **Big Practical Guide To Computer Simulations (2nd Edition)** Alexander K Hartmann, 2015-01-29 This book teaches you all necessary problem independent tools and techniques needed to implement and perform sophisticated scientific numerical simulations Thus it is suited for undergraduate and graduate students who want to become experts in computer simulations in Physics Chemistry Biology Engineering Computer Science and other fields      **Programming in C++** T. B. D'Orazio, 2004 D Orazio s Programming in C Lessons and Applications provides an accessible introduction to programming in C It teaches the C

language and object oriented design to students with no previous programming experience The focus is on developing programs for solving a variety of problems Each chapter of the book is divided into two parts Lessons and Applications The Lessons teach C language elements and simple programming techniques and the Applications teach program design A step by step methodology for program development is presented early in the text and reinforced throughout with the help of the application examples and over thirty case studies

**Principles of Abstract Interpretation** Patrick Cousot,2021-09-21 Introduction to abstract interpretation with examples of applications to the semantics specification verification and static analysis of computer programs Formal methods are mathematically rigorous techniques for the specification development manipulation and verification of safe robust and secure software and hardware systems Abstract interpretation is a unifying theory of formal methods that proposes a general methodology for proving the correctness of computing systems based on their semantics The concepts of abstract interpretation underlie such software tools as compilers type systems and security protocol analyzers This book provides an introduction to the theory and practice of abstract interpretation offering examples of applications to semantics specification verification and static analysis of programming languages with emphasis on calculational design The book covers all necessary computer science and mathematical concepts including most of the logic order linear fixpoint and discrete mathematics frequently used in computer science in separate chapters before they are used in the text Each chapter offers exercises and selected solutions Chapter topics include syntax parsing trace semantics properties and their abstraction fixpoints and their abstractions reachability semantics abstract domain and abstract interpreter specification and verification effective fixpoint approximation relational static analysis and symbolic static analysis The main applications covered include program semantics program specification and verification program dynamic and static analysis of numerical properties and of such symbolic properties as dataflow analysis software model checking pointer analysis dependency and typing both for forward and backward analysis and their combinations Principles of Abstract Interpretation is suitable for classroom use at the graduate level and as a reference for researchers and practitioners

**Small C++** Harvey M. Deitel,Paul J. Deitel,2005 This new briefer edition ofC How to Programfollows all the extensive updates made toC How to Program Fifth Editionand 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

*The Challenges of the Digital Transformation in Education* Michael E. Auer,Thrasyvoulos Tsiatsos,2019-02-28 This book offers the latest research and new perspectives on Interactive Collaborative Learning and Engineering Pedagogy We are currently

witnessing a significant transformation in education and in order to face today's real world challenges higher education has to find innovative ways to quickly respond to these new needs Addressing these aspects was the chief aim of the 21st International Conference on Interactive Collaborative Learning ICL2018 which was held on Kos Island Greece from September 25 to 28 2018 Since being founded in 1998 the conference has been devoted to new approaches in learning with a special focus on collaborative learning Today the ICL conferences offer a forum for exchanging information on relevant trends and research results as well as sharing practical experiences in learning and engineering pedagogy This book includes papers in the fields of New Learning Models and Applications Pilot Projects Applications Project based Learning Real world Experiences Remote and Virtual Laboratories Research in Engineering Pedagogy Technical Teacher Training It will benefit a broad readership including policymakers educators researchers in pedagogy and learning theory school teachers the learning industry further education lecturers etc

**Real-time Systems Design and Analysis** Phillip A. Laplante,1993  
*C++ Solutions* David Vandevoorde,1998 Developers acquire a thorough understanding of ANSI ISO C by working through examples Vandevoorde solves a broad subset of illustrative and realistic exercises to facilitate this process He also includes hints to help programmers find their own solutions and additional exercises to provide deeper insights into modern software design Highlights In depth coverage of C language concepts syntax and features for each chapter Numerous detailed examples that build intuition about performance issues Adherence to the final ANSI ISO C specifications Sample code and programs available on line 0201309653B04062001

**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 *Computer Book Review* ,1988

**North Dakota Elementary Courses of Study with Suggested Daily Program and Organization for Rural Schools Issued by the Department of Public Instruction** North Dakota. Department of Public Instruction,1929

**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 0201114976B04062001 [Online Information ...](#) ,1994 [C++ Primer Answer Book](#) Clovis L. Tondo, Bruce P. Leung, 1999 C programmers who use the Answer Book in conjunction with the C Primer 3rd Ed will better understand the concepts of C by working through the exercises and gain new perspectives through these solutions **New Technical Books** New York Public Library, 1989 **Problem Solving, Abstraction, Design Using C++** Frank L. Friedman, Elliot B. Koffman, 2000 This revision of the classic Problem Solving Abstraction and Design Using C presents and then reinforces the basic principles of software engineering and object oriented programming while introducing the C programming language One of the hallmarks of this book is the focus on program design Professors Frank Friedman and Elliot Koffman present a Software Development Method in Chapter 1 that is revisited in the Case Studies throughout the book This book carefully presents object oriented programming by balancing it with procedural programming so the reader does not overlook the fundamentals of algorithm organization and design Object oriented concepts are presented via an overview in Chapter 1 and then demonstrated with the use of the standard string and ostream classes and a user defined money class throughout the early chapters Chapter 10 shows how to write your own classes and chapter 11 shows how to write template classes The presentation of classes is flexible and writing classes can be covered earlier if desired

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