

Computer Programming Basics

Introduction to Computer Programming with the BASIC Language Harvey M. Deitel 1977

Java Ans C Computer Programming for Beginners Will Norton 2020-12-19 Are you looking for the PERFECT introduction into the world of coding? Are you in learning programming easily? Are you interested in creating real world programming projects with C or whit Java? This comprehensive beginner's guide will take you step by step through learning the best programming languages. In a matter of no time, you will be writing code like a professional. Despite there being many advanced and new languages, Java is highly popular and has dominated this field from the early 2000s till the present. Used in everything from microcontrollers to operating systems, C is a popular programming language among developers because of its flexibility and versatility. This book helps you get hands-on with various tasks, covering the fundamental as well as complex C programming concepts that are essential for making real-life applications Download the e-Book: JAVA AND C COMPUTER PROGRAMMING FOR BEGINNERS - A practical beginners guide to learn java and C programming, fundamentals and code to obtain a comprehensive knowledge of what Java and C programming is and how to get the optimum benefit from it. The goal of this book is simple: We want to help beginners who are willing to do hard work to learn programming with this book. This book will serve as a guide for beginners and a reference for experienced programmers. Whit java will also learn: Basics of Java What is Java Virtual Machine? Basic structure of a Java Program Code structure of Java Data Types and Variables Java Data Structure and Algorithms Arrays in Java Strings in Java Whit c you will also learn ● Different versions available in C ● What is a programming process? ● How to create your first C program? ● What is functional programming? ● What are different available operations in C? ● What are variables, constants, manipulations and functions? ● A brief section about Arrays and Structures ● Description about different errors We believe the best way to learn programming is through practice and practical application. For this reason, this book is crammed full of examples and code descriptions. Would you like to know more? Scroll to the top of the page and select the buy now button.

Computer Programming Fundamentals Eugene Gates 2020-09-21 Do you want to start to learn the main programming languages but are but are you frustrated at the idea that programming is difficult and complex for those who have never faced it?Ok, don't worry. This bundle was created for you! ☐ "The most difficult language is your first". There is this myth in the programming world's. I've been there too, learning any programming language can be frustrating and discouraging. I remember well the initial difficulties in learning my first programming language. Everything would have been easier if I had a guide that made me understand the real basics of programming. Today, the computer is an indispensable tool in many fields. However, the machine can do absolutely nothing without software, that is, without a program that tells you what you have to do. A programming language can be defined as an artificial language that allows the programmer to communicate with the computer to tell him what he has to do. To this end, man has invented many programming languages, but all of them can be classified into three main types: the machine, low level, and high level. This bundle takes you to the discovery of the main programming languages required in the world of work, starting from scratch. Book 1: Coding for beginners Start from here to learn the basics! This book covers: Getting Started with Coding Overview of the main programming languages Functions Strings Loops Object-Oriented Programming Algorithms... and so much more! Book 2: Coding with Python Learn one of the most popular programming language in the world! This book covers: What is Python? Why Python? How to Installing Python (Guide step by step) Python Basics Variables, Lists, Dictionaries, Functions... and so much more! Book 3: SQL programming for beginners SQL is the most universal and commonly used database language! This book covers: SQL to Work with Databases Why is SQL So Great Creating and exploring a Database Getting Started with Queries Subqueries SQL Views and Transactions Book 4: Coding HTML Learn the top three well-known markup languages HTML, JavaScript, and CSS This book covers: Fundamentals Of HTML HTML Styles All About Links, And Forms In HTML Frames, Colors, And Layout Of HTML Fundamentals of Javascript Fundamentals of CSS... and so much

more! After reading this book, you will be more than just a beginner, and you will be able to use that to your benefit so that you can do everything from providing yourself with service to making a lucrative income. Are you ready to learn in a simple way? Click to buy now! ☐

Computer Programming Fundamentals Eugene Gates 2020-10-10 Do you want to start to learn the main programming languages but are but are you frustrated at the idea that programming is difficult and complex for those who have never faced it? Ok, don't worry. This bundle was created for you! ☐ "The most difficult language is your first". There is this myth in the programming world's. I've been there too, learning any programming language can be frustrating and discouraging. I remember well the initial difficulties in learning my first programming language. Everything would have been easier if I had a guide that made me understand the real basics of programming. Today, the computer is an indispensable tool in many fields. However, the machine can do absolutely nothing without software, that is, without a program that tells you what you have to do. A programming language can be defined as an artificial language that allows the programmer to communicate with the computer to tell him what he has to do. To this end, man has invented many programming languages, but all of them can be classified into three main types: the machine, low level, and high level. This bundle takes you to the discovery of the main programming languages required in the world of work, starting from scratch. Book 1: Coding for beginners Start from here to learn the basics! This book covers: Getting Started with Coding Overview of the main programming languages Functions Strings Loops Object-Oriented Programming Algorithms... and so much more! Book 2: Coding with Python Learn one of the most popular programming language in the world! This book covers: What is Python? Why Python? How to Installing Python (Guide step by step) Python Basics Variables, Lists, Dictionaries, Functions... and so much more! Book 3: SQL programming for beginners SQL is the most universal and commonly used database language! This book covers: SQL to Work with Databases Why is SQL So Great Creating and exploring a Database Getting Started with Queries Subqueries SQL Views and Transactions Book 4: Coding HTML Learn the top three well-known markup languages HTML, JavaScript, and CSS This book covers: Fundamentals Of HTML HTML Styles All About Links, And Forms In HTML Frames, Colors, And Layout Of HTML Fundamentals of Javascript Fundamentals of CSS... and so much more! After reading this book, you will be more than just a beginner, and you will be able to use that to your benefit so that you can do everything from providing yourself with service to making a lucrative income. Are you ready to learn in a simple way?

Diving Into BASIC Computer Programming Chris Green 2010-06-02 Diving Into BASIC Computer Programming is back in this revised and expanded second edition! This exciting edition contains new material supplemented with additional projects and programming examples.You've wondered what "computer programming" is all about. It's time for you to find out with Diving Into BASIC Computer Programming. With Diving Into BASIC Computer Programming, you'll learn all the "basics" of the BASIC programming language. The author explains new topics clearly and concisely while maintaining a relaxed and enjoyable writing style. No confusion within these pages! You get what you need to know, without being bombarded by confusing terms.

PROGRAMMING BASICS PRABHU TL Embark on an exciting journey into the world of programming—an exploration of the fundamental concepts, languages, and skills that lay the foundation for creating software and applications. "Programming Essentials: A Comprehensive Guide to Programming Basics" is a comprehensive guide that unveils the principles and practices that empower individuals to understand, write, and decipher code. Unveiling the Code Craft: Immerse yourself in the art of programming as this book provides a roadmap to mastering the essential elements of coding. From understanding algorithms to solving problems, from grasping data structures to creating functional programs, this guide equips you with the tools to navigate the dynamic landscape of programming. Key Topics Explored: Introduction to Programming: Discover the origins, significance, and role of programming in modern technology. Programming Languages: Embrace the syntax and semantics of popular programming languages and their

unique features. Problem-Solving Techniques: Learn how to approach and solve coding challenges using logical thinking and creativity. Data Structures and Algorithms: Understand the building blocks of coding, from arrays and lists to sorting and searching. Software Development Lifecycle: Explore the process of developing, testing, debugging, and deploying software applications. Target Audience: "Programming Essentials" caters to aspiring programmers, students, tech enthusiasts, and anyone curious about the world of coding. Whether you're pursuing a career in software development, aiming to create your first app, or simply seeking to grasp the basics of programming, this book empowers you to embark on a journey of code exploration. Unique Selling Points: Real-Life Coding Scenarios: Engage with practical examples that illustrate coding concepts and techniques in various contexts. Hands-On Exercises: Provide coding exercises and challenges that allow readers to practice and apply what they've learned. Language Agnostic Approach: Present programming principles that are applicable across different programming languages. Problem-Solving Mindset: Encourage readers to think critically and creatively when approaching coding challenges. Master the Language of Technology: "Programming Basics" transcends ordinary coding literature—it's a transformative guide that celebrates the art of understanding, creating, and appreciating the language of technology. Whether you're deciphering algorithms, building applications, or curious about the intricacies of code, this book is your compass to mastering the principles that drive successful programming. Secure your copy of "Programming Basics" and embark on a journey of unraveling the dynamic and captivating world of programming.

BASIC Computer Programming Thomas C. Bartee 1985

Coding for Beginners in easy steps Mike McGrath 2015-05-19 Coding for Beginners in easy steps has an easy-to-follow style that will appeal to anyone, of any age, who wants to begin coding computer programs. You need have no previous knowledge of any computer programming language so it's ideal for the newcomer, including youngsters needing to learn programming basics for the school curriculum. Coding for Beginners in easy steps instructs you how to write code to create your own computer programs. It contains separate chapters demonstrating how to store information in data structures, how to control program flow using control structures, and how to create re-usable blocks of code in program functions. There are complete step-by-step example programs that demonstrate each aspect of coding, together with screenshots that illustrate the actual output when each program has been executed. Coding for Beginners in easy steps begins by explaining how to easily create a programming environment on your own computer, so you can quickly begin to create your own working programs by copying the book's examples. After demonstrating the essential building blocks of computer programming it describes how to code powerful algorithms and demonstrates how to code classes for Object Oriented Programming (OOP). The examples throughout this book feature the popular Python programming language but additionally the final chapter demonstrates a comparison example in the C, C++, and Java programming languages to give you a rounded view of computer coding. The code in the listed steps within the book is colour-coded to precisely match the default colour-coding of the Python IDLE editor, making it easier for beginners to grasp. By the end of this book you will have gained a sound understanding of coding and be able to write your own computer programs that can be run on any compatible computer.

Fundamentals of Computer Programming with C# Svetlin Nakov 2013-09-01 The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin

Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The book does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

Computer Programming Fundamentals with Applications in Visual Basic 6.0 Mitchell C. Kerman 2000 This book presents concepts of programming methodology and sound software development alongside the fundamentals of the Visual Basic 6.0 language. The goal is to provide a foundation of solid programming techniques and to promote an understanding of the common control structures available in most high-level languages. The book discusses the language with gradually increasing complexity, presenting the essential features of Visual Basic before introducing advanced language features. This is an appropriate book for introductory courses in computer programming as well as a reference for advanced programmers.

Features: *Provides a solid foundation in computer programming fundamentals using the Visual Basic language *Contains well thought-out pedagogy, including: -Code Callouts to explain important points and key concepts in program source code -GUI Design Tips to enhance understanding of proper GUI design -Real-world examples from the business, math, science, engineering, and operations research communities to demonstrate the relevance of the material -Case Studies to provide insight on how the concepts apply to real-world situations -Chapter Summaries to review key terms, words, and c

Programming Joseph Connor 2016-12-09 Ready to become a web developer but not sure where to start? Learn the basics of web design in one afternoon. This handy guidebook is designed to give anyone a solid foundation in web development by introducing you to the three most popular web development languages used today. Whether you're a first-time coder or shifting gears from software to web development, Programming: Computer Programming For Beginners: Learn The Basics Of HTML5, JavaScript & CSS offers all the basics you need to make web pages including: - A brief introduction to Web Development - How to create a basic web page with HTML5 - How to use CSS to style pages -Loads of tips, tricks, and answers to frequently asked questions -How to make pages interactive using JavaScript -Reference tables and lists for common elements and attributes You'll start with a brief introduction into the world of web design. Chapter by chapter, Joseph Conner guides you through the basics of each language. Along the way, you get plenty of insider tips and detailed explanations about the pros and cons of each language. Connor also points out best practices that will help ensure your code is up to speed. By the end of this short

guidebook, you'll have a sturdy foundation to build on and a basic understanding of how HTML, CSS, and JavaScript are used together to create stylish, interactive web pages. Start building your web development skills today with Programming: Computer Programming For Beginners: Learn The Basics Of HTML5, JavaScript & CSS.

Learn Coding Basics in Hours with Small Basic Jack C. Stanley 2020-06-05 Want to learn how to code in less than a day? This book was designed for absolute beginners - you don't need any prior experience or knowledge. Written by the Co-Founders of The Tech Academy (learncodinganywhere.com), this book serves as a perfect introduction to computer programming for anyone. This book utilizes Small Basic, a computer programming language created by Microsoft for beginners and educational purposes. Learn Coding Basics in Hours with Small Basic is easy and simple, and it can be completed fast. The Tech Academy is a technology school that specializes in coding boot camps. You can enroll online and study their programs from anywhere in the world.

The Complete Idiot's Guide to Programming Basics Clayton Walnum 2002 Introduces basic concepts of computer programming, including program flow and branching, Boolean operators and expressions, logic errors, detecting and debugging errors, and object-oriented programming techniques.

A Gentle Introduction to Computer Programming Fundamentals Steven Shaffer 2017-09-12 UPDATED & REVISED April 2020 Programming is fast becoming a basic literacy. Software is pervasive in society and therefore it is needed in virtually every occupation. But for some people, programming feels very unnatural; that's where this book comes in! This book is written in a step-by-step, tutorial style that makes programming available to pretty much anyone who cares to take the time to learn. It's the result of the author's years of experience and research into teaching introductory programming. Versions of this book have been used in online learning classes for years, and so it has the advantage of being optimized for independent learning. You can start using this book right away, without buying anything else and without having to install anything on your computer! Within a few days, you will understand the basics of how computer programs work. C++ is used in this textbook because the syntax is almost exactly the same as C, Java, Javascript, PHP and many other popular programming languages. If you master the concepts in this book, they will transfer to many other languages. In addition, C++ does not require a lot of "scaffolding" to set up. For example, Java requires understanding classes right from the beginning, and PHP requires understanding html. With C++, you start with four standard lines at the top of your program, and you're into the program. When you're finished with this book, the world of programming will be opened up for you; from here, you can go in any direction you wish.

Computer Programming Alexander Bell 2019-07-12 The best guide to computer programming fundamentals. This book will give you a solid foundation if you are new to programming. For a beginner, programming can seem like something scary or hard to do. With all the technical terms and concepts out there, and the numerous programming languages available at your disposal it is so important now more than ever before to build a strong foundation. When you understand the fundamentals of programming, learning any programming language is a piece of cake. In addition, programming is not just all about coding. It is also about knowing how to plan your work, how to set deadlines, how to communicate with team members, how to use existing components, how to debug existing codes and fix issues, how to build secure systems, how to use the right tools etc. These are all covered in this book and in a way that is easy for you to understand. Once you read this book to the end, you will become more confident and equipped with the knowledge necessary for success in this field. A career in computer programming is one of the most rewarding choices you will make in your life. The opportunities are endless. This book will give you the foundation you need. Below is a preview of what you'll learn: The importance of learning computer programming Program structure Variable declaration Looping structures Programming syntax Algorithms in programming Data structures Hierarchy of programming languages Characteristics of programming languages Web programming Factors to consider when choosing a programming language Popular programming languages Security in programming And much more!! Learn the fundamentals of computer programming today by clicking the BUY NOW button at the top of the page!

BASIC William F. Sharpe 1979

Basics of Digital Computer Programming John S. Murphy 1972 Provides a broader and more practical

picture of the computer programmer's job.

Computer Programming Fundamentals A B Lawal 2020-05-09 You're about to lay your hands on my most proudly fundamental course. This is where to begin if you've never written a line of code in your life or even if you have, and want to review the basics. No matter what programming language you're most interested in, even if you're not completely sure about that, this course will make learning that language easier. We'll do this by starting with the most fundamental critical questions: How do you actually write a computer program and get the computer to understand it? We'll jump into the syntax, the rules of programming languages and see many different examples to get the big picture of how we need to think about data and control the way our programs flow. We'll even cover complex topics like recursion and data types. We will finish by exploring things that make real world programming easier, from libraries and frameworks to SDKs and APIs. But you won't find a lot of bullet points in this book. This is a highly visual course, and by the end of it, you'll understand much more about the process of programming and how to move forward with writing any kind of application. But unlike most courses, this one does not require prior knowledge of any one programming language, operating system or application. There is nothing to download, nothing to install. So just give me your attention as you go through the course. Finally, you will know how to choose the right programming language for YOU. Programming languages are numerous these days but in this book I show you how to choose the one that meets your specific needs, so that you can save time and energy. With my honest advice, you can not make a wrong choice.

Beginning Programming All-in-One For Dummies Wallace Wang 2022-06-21 Let there be code! Beginning Programming All-in-One For Dummies offers one guide packed with 7 books to teach you programming across multiple languages. Coding can seem complex and convoluted, but Dummies makes it simple and easy to understand. You'll learn all about the principles of programming, algorithms, data structures, debugging programs, unique applications of programming and more while learning about some of the most popular programming languages used today. Move confidently forward in your computer science coursework or straight into the workforce. You'll come away with a rock-solid foundation in the programming basics, using data, coding for the web, and building killer apps. Learn the basics of coding, including writing and compiling code, using algorithms, and data structures Get comfortable with the syntax of several different programming languages Wrap your mind around interesting programming opportunities such as conducting biological experiments within a computer or programming a video game engine Develop cross-platform applications for desktop and mobile devices This essential guide takes the complexity and convolution out of programming for beginners and arms you with the knowledge you need to follow where the code takes you.

Programming Basics with C# Svetlin Nakov 2019-09-01 The free book "Programming Basics with C#" (<https://csharp-book.softuni.org>) is a comprehensive entry level computer programming tutorial for absolute beginners that teaches basics of coding (variables and data, conditional statements, loops and methods), logical thinking and problem solving using the C# language. The book comes with free video lessons for each chapter, 150+ practical exercises with an automated online evaluation system (online judge) and solution guidelines for the exercises. The book "Programming Basics with C#" introduces the readers with writing programming code at a beginners level (basic coding skills), working with development environment (IDE), using variables and data, operators and expressions, working with the console (reading input data and printing output), using conditional statements (if, if-else, switch-case), loops (for, while, do-while, foreach) and methods (declaring and calling methods, passing parameters and returning values), as well as algorithmic thinking and solving practical programming problems. This free coding book for beginners is written by a team of developers lead by Dr. Svetlin Nakov (<https://nakov.com>) who has 25+ years practical software development experience and 15+ years as software development trainer. The free book "Programming Basics with C#" is an official textbook for the "Programming Basics" classes at the Software University (SoftUni), used by tens of thousands of students at the start of their software development education. The book relies on the "explain by examples" and "learn by doing" approaches to learning the practical coding skills required to become a software engineer. Each chapter provides some concepts, explained as video lesson with lots of code examples, followed by practical exercises involving the use of the new concepts with online evaluation system (online judge). Learners

watch the videos, try the sample code and solve the exercises, which come as part of each book chapter. Exercises are given in series with increasing complexity: from quite trivial, though little complicated to highly complicated, requiring more thinking and research in Internet. Most exercises come with detailed hints and guidelines about how to construct a correct solution. Download the free C# programming basics book (as PDF, ePub and Mobi formats), watch the video lessons and the live coding demos, solve the practical exercises and evaluate your solutions at the book official Web site: <https://csharp-book.softuni.org>. Tags: book, programming, free, computer programming, coding, writing code, programming basics, ebook, programming book, book programming, C#, CSharp, C# book, Visual Studio, .NET, tutorial, C# tutorial, video lessons, C# videos, programming videos, programming lessons, coding lessons, coding videos, programming concepts, data types, variables, operators, expressions, calculations, statements, console input and output, control-flow logic, program logic, conditional statements, nested conditions, loops, nested loops, methods, functions, method parameters, method return values, problem solving, practical exercises, practical coding, learn by examples, learn by doing, code examples, online judge system, Nakov, Svetlin Nakov, SoftUni, ISBN 978-619-00-0902-3, ISBN 9786190009023 Detailed Book Contents: Preface - about the book, scope, how to learn programming, how to become a developer, authors team, SoftUni, the online judge, forums and other resources Chapter 1. First Steps in Programming - writing simple commands, writing simple computer programs, runtime environments, the C# language, Visual Studio and other IDEs, creating a console program, writing computer programs in C# using Visual Studio, building a simple GUI and Web apps in Visual Studio Chapter 2.1. Simple Calculations - using the system console, reading and printing integers, using data types and variables, reading floating-point numbers, using arithmetic operations, concatenating text and numbers, using numerical expressions, exercises with simple calculations, creating a simple GUI app for converting currencies Chapter 2.2. Simple Calculations - Exam Problems - practical problems with console input / output and simple calculations, with solution guidelines, from programming basics exams Chapter 3.1. Simple Conditions - using simple conditional statements, comparing numbers, simple if-else conditions, variable scope, sequence of if-else conditions, using the debugger, practical exercises with simple conditions with solution guidelines Chapter 3.2. Simple Conditions - Exam Problems - practical problems with simple if-else conditions, with solution guidelines, from programming basics exams Chapter 4.1. More Complex Conditions - nested if conditions (if-else inside if-else), using the logical "OR", "AND" and "NOT" operators, using the switch-case conditional statements, building GUI app for visualizing a point in a rectangle, practical exercises with solution guidelines Chapter 4.2. More Complex Conditions - Exam Problems - practical problems with more complex if-else conditions and nested if conditions, with solution guidelines, from programming basics exams Chapter 5.1. Repetitions (Loops) - using simple for-loops, iterating over the numbers from 1 to n, reading and processing sequences of numbers from the console, using the for-loop code snipped in Visual Studio, many practical exercises with loops, with solution guidelines, summing numbers, finding min / max element, drawing with the "turtle graphics" in a GUI app Chapter 5.2. Loops - Exam Problems - practical problems with simple loops, with solution guidelines, from programming basics exams Chapter 6.1. Nested Loops - using nested loops (loops inside other loops), implementing more complex logic with loops and conditional statements, printing simple and more complex 2D figures on the console using nested loops, calculations and if conditions, practical exercises with nested loops with solution guidelines, building a simple Web app to draw ratings in Visual Studio using ASP.NET MVC Chapter 6.2. Nested Loops - Exam Problems - practical problems with nested loops and more complex logic, with solution guidelines, from programming basics exams Chapter 7.1. More Complex Loops - using for-loops with a step, loops with decreasing loop variable, using while loops, and do-while loops, solving non-trivial problems like calculating GCD (greatest common divisor) and finding the prime numbers in certain range, infinite loops with break inside, using simple try-catch statements to handle errors, building a simple Web based game using Visual Studio and ASP.NET MVC, practical exercises with more complex loops with solution guidelines Chapter 7.2. More Complex Loops - Exam Problems - practical problems with nested and more complex loops with non-trivial logic, with solution guidelines, from programming basics exams Chapter 8.1. Practical Exam Preparations - Part I - sample practical exam from the entrance exams at the Software University, with solution guidelines, covering 6 problems with simple calculations, with simple conditions, with more complex conditions, with a

simple loop, with nested loops, with nested loops and more complex logic Chapter 8.2. Practical Exam Preparations - Part II - another sample practical exam from the entrance exams at the Software University, with solution guidelines, covering 6 problems with simple calculations, with simple conditions, with more complex conditions, with a simple loop, with nested loops, with nested loops and more complex logic Chapter 9.1. Problems for Champions - Part I - a sample set of more complex problems, requiring stronger algorithmic thinking and programming techniques, with solution guidelines Chapter 9.2. Problems for Champions - Part II - another set of more complex problems, requiring stronger algorithmic thinking and programming techniques, with solution guidelines Chapter 10. Methods - what is method, when to use methods, defining and calling methods (functions), passing parameters and returning values, returning multiple values, overloading methods, using nested methods (local functions), naming methods correctly, good practices for using methods Chapter 11. Tricks and Hacks - some special techniques, tricks and hacks for improving our performance with C# and Visual Studio: hints how to format the code, conventions and guidelines about naming the code elements, using keyboard shortcuts in VS, defining and using code snippets in VS, debugging code, using breakpoints and watches Conclusion - the skills of the software engineers, how to continue learning software development after this book (study software engineering in SoftUni, study in your own way), how to get learning resources and how many time it takes to become a skillful software engineer and start a job

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