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C tutorial for beginners - full course pdf

C programming is a general-purpose, procedural, imperative computer programming language developed in 1972 by Dennis M. Ritchie at the Bell Telephone Laboratories to develop the UNIX operating system. C is the most widely used computer language. It keeps fluctuating at number one scale of popularity along with Java programming language, which is also equally popular and most widely used among modern software programmers. Why to Learn C Programming? C programming language is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Software Development Domain. I will list down some of the key advantages of learning C Programming: Easy to learn Structured language It produces efficient programs It can handle low-level activities It can be compiled on a variety of computer platforms Facts about C C was invented to write an operating system called UNIX. C is a successor of B language which was introduced around the early 1970s. The language was formalized in 1988 by the American National Standard Institute (ANSI). The UNIX OS was totally written in C. Today C is the most widely used and popular System Programming Language. Most of the state-of-the-art software have been implemented using C. Just to give you a little excitement about C programming, I'm going to give you a small conventional C Programming Hello World program, You can try it using Demo link. #include int main() { /* my first program in C */ printf("Hello, World! "); return 0; } Applications of C Programming C was initially used for system development work, particularly the programs that make-up the operating system. C was adopted as a system development language because it produces code that runs nearly as fast as the code written in assembly language. Some examples of the use of C are - Operating Systems Language Compilers Assemblers Text Editors Print Spoolers Network Drivers Modern Programs Databases Language Interpreters Utilities Audience This tutorial is designed for software programmers with a need to understand the C programming language starting from scratch. This C tutorial will give you enough understanding on C programming language from where you can take yourself to higher level of expertise. Prerequisites Before proceeding with this tutorial, you should have a basic understanding of Computer Programming terminologies. A basic understanding of any of the programming languages will help you in understanding the C programming concepts and move fast on the learning track. Hello guys, if you are interested in learning C programming in 2022 and looking for the best C Programming courses, then you have come to the right place.Earlier, I have shared the best C++ programming courses and In this article, I am going to share some of the best C programming courses you can join to learn C from scratch in 2022.C Programming language is one of the oldest, most powerful, and a programming language which has survived 50 years. Yes, that's right, 50 years. It's a great achievement for any technology to remain relevant for such a long period.If you don't know, the C Programming language is one of the first general-purpose programming language, invented by Dennis Ritchie and Ken Thomson around 1969. Ken was writing UNIX, another accessible technology that has survived for 50 years around the same time and needed a programming language that can do all kinds of tasks; the result was C programming language. After that, C ruled the world for a long time and played its part in creating software programmers used daily, like Operating systems, Database management systems, device drivers, Game consoles, etc. The charm of C was dimmed a little bit in the last 2 decades because of Java, C++, and Python's lead on application development. However, C is still very popular for embedded programming and low-level system programming. It's also prevalent in Academic institutions like schools, colleges, and Universities. In fact, it was the first programming language I learned, and because of that, I could learn Java and C++ really easily. Even though Python is simpler to learn as the first programming language, C is also the right choice, particularly if you want to learn low-level system programming. When you learn C, you will learn how your program uses memory, understand what happens when you read and write variables, how the array works, and how pointers and memory addressing works.These are the things you will not learn with Java or Python, but only with C and C++, that's why I also suggest programmers start with C as their first programming language.As I have said, C is a powerful, general-purpose programming language, and it's also a great language to learn when you start with programming. It gives you a lot more control over how your program uses memory, which is a tricky part but also very important if you want to become a better programmer. It is heavily used as a system programming language, and you will find a lot of usage of C on domains like embedded programming, telecommunications, and hardware interfaces. For example, it is heavily used for writing device drivers, processors, and micro-controllers than any other language. Now, without wasting any more of your time, here is my list of some of the best courses to learn C Programming from scratch. The C Programming Language course is designed to give you everything you need to become a productive C programmer.1. C Programming For Beginners — Master the C Language (Udemy)This is my recommended course for learning C to all beginners. This is a very well structured course, and it will teach you programming with C, one of the powerful and first general-purpose programming languages. This course is created by Tim Buchalka's Learn Programming Academy and Jason Fedin, who is the primary instructor. If you don't know, Tim's academy has produced many great courses to learn major technologies like Java, Android, Kotlin, etc.In this course, you will learn about data types, operators, control structures, functions, array, and even pointers, which are crucial to becoming a successful C developer.It has 23 hours of content, and everything is explained in detail, which is very important for beginners. If you like, you can combine this with the Head First C book by David and Dawn Griffith, my favorite book to learn C.Here is the link to join this course — C Programming For Beginners — Master the C LanguageThis is another course Learn C in easy steps on Udemy. This course is created by Huw Collingbourne, who has also authored The Little Book Of C, The Little Book Of Pointers, and The Little Book Of Recursion from Bitwise Books. This course will teach you C programming from ground zero. The good thing about this course is that examples are shown in both Windows and macOS, which means if you are using MacBook for programming, then also you don't need to worry. The course is well structured and progressed nicely; you start with essential tools like C compilers, IDEs like NetBeans, and Visual Studio, which is needed for professional C development.After covering the necessary tools, you will learn about variables, data types, operators, functions, structures, array, pointers, and other C specific stuff.Here is the link to join this course — C Programming For BeginnersYou will also learn about file-handling in C, which many other courses don't cover. Overall an excellent class for beginners learning C as their first programming language or refreshing C knowledge after learned C many years ago in school or colleges.You might not know that Coursera also has an excellent specialization in C programming. If you are learning C as your first programming language, then this specialization can really help you a lot. This specialization is offered by Duke University, and it helps develop strong programming fundamentals for learners who want to solve complex problems by writing computer programs, this means you will not only learn C but also how to program. Through four courses, you will learn to develop algorithms systematically and read and write the C code to implement them. This will prepare you to pursue a career in software development or other computational fields.The specialization also comes with a hands-on project, and when you complete it, you will also earn a certificate that you can add to your resume or in your LinkedIn profile.Here is the link to join this C course — Introduction to Programming in CBy the way, if you find Coursera specialization and certifications useful then I suggest you join the Coursera Plus, a great subscription plan from Coursera which gives you unlimited access to their most popular courses, specialization, professional certificate, and guided projects.It cost around $399/year but it's completely worth your money as you get unlimited certificates.This is a free course to learn C Programming in 4 hours from FreeCodeCamp's Youtube channel. This course is developed by Mike Dane and contributed to FreeCodeCamp.This course will give you a full introduction to all of the core concepts in the C programming language. Follow along with the tutorial video and you'll be a C programmer in no time!Here is the full course which you can also watch for FREE here.This is another fantastic course to learn C on Pluralsight, and it's designed to teach you everything you need to become a productive C programmer. Whether you are learning C programming as a foundation for C++ or Java, or just to prepare yourself for embedded programming, this course will give you a solid foundation and show you that C is not that difficult. Here is the link to join this C fundamentals course — C Programming Language FundamentalsThough, you would need a Pluralsight membership to access this course. I already have one, and I suggest you get one if you continuously learn new things, it's crucial for programmers.The membership costs around $29 per month, but you can save 14% by signing up for an annual membership of $299. They also offer a 10-day free trial, which is a great chance to explore their platform, and you may even complete this course for free.It's a free course to learn C from scratch and taught by founder and great author, instructor Fahim Ul Haq, who is a C/C++ programmer and worked in tech giants like Microsoft. I am already a fan of his writing and clarity in his article, and this course is no different.This course will teach you fundamental programming concepts from scratch like data types, control flow, functions, input/output, memory, compilation, debugging, and other advanced topics in a comprehensive yet concise manner.If you want to learn C and looking for a free resource, I strongly suggest you join this open and interactive course to learn C.Here is the link to join this free C course — Learn C from ScratchIf you don't know, Educative.io is a relatively new online learning platform, but I have some found some beneficial courses there like Grokking the System design interview and Grokking the Coding Patterns. I didn't know they also had some free courses, but while exploring, I found this gem.And, if you find the Educative platform and their interactive courses useful then you can also get an Educative Subscription that provides access to not just this course but their 100+ courses in just $18 per month. It's very cost-effective and great for getting some hands-on learning experience.This is another great Coursera Course to learn C Programming for beginners. As the title suggests this course is for everyone. This means even if you no programming experience you can join this course to learn both C and Programming from scratch. This course is part of the Coding for Everyone: C and C++ SpecializationThe C language is particularly well suited as an introduction to coding: It's a tried-and-true language, and it allows you to understand computing processes at a deep level.No prior knowledge of coding is needed for this course. You will learn programming from the beginning. The time estimated time commitment for this course is five hours a week for five weeks.Here is the link to join this course — C for Everyone: Programming FundamentalsThis is an advanced level PRogramming course for people who are already familiar with both C and programming in general. In this course, Dan Gookin offers some tips to help you extend your C programming skills.In this course, you will learn how to read and write main function arguments, build more useful variables, and work with arrays and structures. Plus, get tips on generating pointers, and take the practice challenges to test your learning along the way.Here is the link to join this course — Advanced C ProgrammingThis is another highest rated course to learn C Programming and highly recommend for beginners. This course is created by Vlad Budnitski and will teach you C programming in 12. 5 hours.Here are the main things which are covered in this course:General Programming Concepts.Input & Output.How variables work.Conditions & Control Flow.Different types of Loops.Functions.Arrays.Pointers.Strings.Recursions.This course is mainly for Total Beginners and hobbyists who want to learn some new skills in an easy and engaging way.here is the link to join this course — C Programming for Beginners: Theory, Practice, and HANDS-ON!That's all about some of the best courses to learn C Programming from scratch in 2022. As I have said, C is one of the first general-purpose programming languages and the mother of all programming languages like Java, Python, C++, JavaScript, Swift, and Go.Starting with C not only helps you to understand this language better but also takes you closer to the machine. When you work with C, you learn an out about computers as it's heavily used for writing device drivers, micro-controllers, and low-level system programming. Other Programming Resources (Free and Paid) you may like to checkThanks for reading this article so far. If you like these C programming courses, then please share them with your friends and colleagues. If you have any questions or feedback, then please drop a note.P. S. — If you are serious about learning C Programming and looking for some free resources like books and courses then you can also check out this Complete C Programming (FREE) course on Udemy. It's fully free and you just need an Udemy account to join this course.

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