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this document constitutes a detailed set of lecture slides on programming using the c programming language the topics covered are quite broad including the history of c the c language itself the c standard library and various other libraries and software tools as well as numerous other programming related topics coverage of c is current with the c 14 standard many aspects of the c language are covered from introductory to more advanced this material includes language basics objects types values operators expressions control flow constructs functions and namespaces classes templates function class alias and variable templates template specialization and variadic templates lambda expressions inheritance and run time polymorphism exceptions exception safety raii and smart pointers rvalue references move semantics and perfect forwarding concurrency sequential consistency atomic memory operations data races threads mutexes condition variables promises and futures atomics and fences happens before and synchronizes with relationships and sequentially consistent and other memory models a number of best practices tips and idioms regarding the use of the language are also presented some aspects of the c standard library are covered including containers iterators and algorithms the std vector and std basic string classes i o streams time measurement and smart pointers various general programming related topics are also presented such as

material on good programming practices finite precision arithmetic software documentation software build tools such as cmake and make and version control systems such as git

ever feel like you know the theory but not what to actually do during a live hack the hacker's notes how to hack all tech no fluff no theory just execution you're not alone in today's ever evolving digital battlefield most cybersecurity content overwhelms with theory jargon or outdated tools you're not looking for fluff you want execution not explanations you want to be the operator in control the one who knows what to do when the moment hits but theory heavy textbooks don't teach that before you're jumping between youtube videos outdated pdfs or scattered blog tutorials trying to piece together a solid offensive or defensive strategy the hacker's notes how to hack all tech no fluff no theory just execution master the art of hacking and enhance your cybersecurity skills this streamlined field guide is built for red team blue team operators penetration testers soc analysts cybersecurity students ethical hackers and infosec hobbyists this no nonsense guide is tailored for professionals who prefer practical over theoretical with a focus on real world applications it's the ultimate resource for anyone eager to learn cutting edge security tactics key features and benefits direct execution skip the theory jump straight into tactics with hands on actionable steps comprehensive toolkits includes scripts commands and playbooks for red and blue teams modern tech coverage extensive operations on ai ml blockchain cloud mobile and iot live examples every chapter includes command line syntax and real world tool usage content highlights high impact osint techniques learn to uncover hidden data and digital footprints advanced exploitation strategies explore paths for privilege escalation evasion and persistence incident response tactics master defensive strategies and threat hunting like a pro why choose this book updated for 2025 with modern systems and toolchains field tested techniques used by real operators easy to navigate format for quick referencing during live engagements available in paperback and kindle formats whether you're executing missions or just starting out the hacker's notes gives you the edge you need to operate with confidence intended for training simulation and authorized environments only if you're tired of flipping through 800 pages of theory while your job needs results now grab the hacker's notes and become the operator others call when things go wrong get your copy today and gain the tactical edge that sets you apart on the cyber battlefield

blockchain has become attractive to companies and governments because it promises to solve the age old problem of mutability in transactions that is it makes falsification and recalculation impossible once a transaction has been committed to the technology however the perceived complexity of implementing blockchain calls for an in depth overview of its key features and functionalities specifically in a legal context the systematic and comprehensive approach set forth in this indispensable

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with recent technological advances in multiple research fields such as materials science micro nano technology cellular and molecular biology bioengineering and the environment much attention is shifting toward the development of new detection tools that not only address needs for high sensitivity and specificity but fulfil economic environmental and rapid point of care needs for groups and individuals with constrained resources and possibly limited training miniaturized fluidics based platforms that precisely manipulate tiny body fluid volumes can be used for medical healthcare or even environmental e g heavy metal detection diagnosis in a rapid and accurate manner these new detection technologies are potentially applicable to different healthcare or environmental issues since they are disposable inexpensive portable and easy to use for the detection of human diseases or environmental issues especially when they are manufactured based on low cost materials such as paper the topics in this book original and review articles would cover point of care detection devices microfluidic or paper based detection devices new materials for making detection devices and others

up to date strategies for thwarting the latest most insidious network attacks this fully updated industry standard security resource shows step by step how to fortify computer networks by learning and applying effective ethical hacking techniques based on curricula developed by the authors at major security conferences and colleges the book features actionable planning and analysis methods as well as practical steps for identifying and combating both targeted and opportunistic attacks gray hat hacking the ethical hacker s handbook sixth edition clearly explains the enemy s devious weapons skills and tactics and offers field tested remedies case studies and testing labs you will get complete coverage of internet of things mobile and cloud security along with penetration testing malware analysis and reverse engineering techniques state of the art malware ransomware and system exploits are thoroughly explained fully revised content includes 7 new chapters covering the latest threats includes proof of concept code stored on the github repository authors train attendees at major security conferences including rsa black hat defcon and besides

providing a comprehensive overview and analysis of the latest research in the growing field of public transport studies this handbook looks at the impact of urbanisation and the growth of mega cities on public transport chapters examine the significant challenges facing the field that require new and original solutions including congestion and environmental relief and the social equity objectives that justify public transport in cities

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cutting edge techniques for finding and fixing critical security flaws fortify your network and avert digital catastrophe with proven strategies from a team of security experts completely updated and featuring 13 new chapters gray hat hacking the ethical hacker's handbook fifth edition explains the enemy's current weapons skills and tactics and offers field tested remedies case studies and ready to try testing labs find out how hackers gain access overtake network devices script and inject malicious code and plunder applications and browsers android based exploits reverse engineering techniques and cyber law are thoroughly covered in this state of

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