

# Secret History: The Story of Cryptology

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## Exercises

### Chapter 1

1. Codes can be found everywhere. Give an example of a code (it doesn't be a secret code) that wasn't mentioned in this chapter.

2. Encipher the following using a Polybius cipher with keyword ARCHIMEDES.

GIVE ME A PLACE TO STAND AND I WILL MOVE THE EARTH.

3. Decipher the following using a Polybius cipher with keyword ARCHIMEDES.

23 41 35 41 44 23 15 24 44 45 12 25 21 54 13 15 12 13 34 22 24

4. Encipher the following using a Polybius cipher with keyword PLATO.

ONE OF THE PENALTIES OF REFUSING TO PARTICIPATE IN POLITICS IS  
THAT YOU END UP BEING GOVERNED BY YOUR INFERIORS.

5. Decipher the following using a Polybius cipher with keyword THUCYDIDES.

22 11 22 24 13 24 23 35 23 24 24 11 43 25 11 11 25 14 34 41 23  
42 53 12 43 14 43 13 35 21 42 43 11 31 23 14 43 42 11 51 43 35  
35 23 21 23 52 23 42 22 32 14 43 42 45 13 23 51 23 21

6. Encipher the following using a Polybius cipher with keyword EPICLETUS.

IN ORDER TO PLEASE OTHERS, WE LOOSE OUR HOLD ON LIFE'S PURPOSE.

7. Decipher the following using a Polybius cipher with keyword ARISTOPHANES.

14 45 12 25 42 54 54 21 45 33 21 24 15 31 25 42 13 25 51 25 13  
24 15 23 25 35 21 33 14 52 23 11 15 14 54 21 45 12 11 12 35 45  
43 25 24 15 52 23 25 12 25 14 54 21 45 12 22 12 21 21 34

8. Encipher the following using a Polybius cipher with keyword ARISTOPHANES.

QUICKLY BRING ME A BEAKER OF WINE SO THAT I MAY WET MY MIND AND SAY  
SOMETHING CLEVER.

# Cryptography Exercises Solutions

**Xiang Xie**



## **Cryptography Exercises Solutions:**

**An Introduction to Cryptography** Jane Silberstein, Richard Anthony Mollin, Chris Maser, James R Sedell, 2004-11-11

CRYPTOGRAPHY PROBLEMS AND SOLUTIONS (A Cryptography Textbook) Dharminder Chaudhary, Pratik Gupta, In an age where digital information is ubiquitous and the need for secure communication and data protection is paramount understanding cryptography has become essential for individuals and organizations alike This book aims to serve as a comprehensive guide to the principles techniques and applications of cryptography catering to both beginners and experienced practitioners in the field Cryptography the art and science of securing communication and data through mathematical algorithms and protocols has a rich history dating back centuries From ancient techniques of secret writing to modern cryptographic algorithms and protocols used in digital communication networks cryptography has evolved significantly to meet the challenges of an increasingly interconnected and digitized world This book is structured to provide a systematic and accessible introduction to cryptography covering fundamental concepts such as encryption decryption digital signatures key management and cryptographic protocols Through clear explanations practical examples and hands on exercises readers will gain a deep understanding of cryptographic principles and techniques enabling them to apply cryptography effectively in real world scenarios Key Features of This Book Comprehensive coverage of cryptographic principles algorithms and protocols Practical examples and code snippets to illustrate cryptographic concepts Discussions on modern cryptographic techniques such as homomorphic encryption post quantum cryptography and blockchain cryptography Insights into cryptographic applications in secure communication digital signatures authentication and data protection Considerations on cryptographic key management security best practices and emerging trends in cryptography Whether you are a student learning about cryptography for the first time a cyber security professional seeking to enhance your skills or an enthusiast curious about the inner workings of cryptographic algorithms this book is designed to be your trusted companion on your journey through the fascinating realm of cryptography We hope this book inspires curiosity sparks intellectual exploration and equips readers with the knowledge and tools needed to navigate the complex and ever evolving landscape of cryptography

**A Classical Introduction to Cryptography Exercise Book** Thomas Baigneres, Pascal Junod, Yi Lu, Jean Monnerat, Serge Vaudenay, 2007-08-06 TO CRYPTOGRAPHY EXERCISE BOOK Thomas Baigneres EPFL Switzerland Pascal Junod EPFL Switzerland Yi Lu EPFL Switzerland Jean Monnerat EPFL Switzerland Serge Vaudenay EPFL Switzerland Springer Thomas Baigneres Pascal Junod EPFL I C LASEC Lausanne Switzerland Lausanne Switzerland Yi Lu Jean Monnerat EPFL I C LASEC EPFL I C LASEC Lausanne Switzerland Lausanne Switzerland Serge Vaudenay Lausanne Switzerland Library of Congress Cataloging in Publication Data A C I P Catalogue record for this book is available from the Library of Congress A CLASSICAL INTRODUCTION TO CRYPTOGRAPHY EXERCISE BOOK by Thomas Baigneres Pascal Junod Yi Lu Jean Monnerat and Serge Vaudenay ISBN 10 0 387 27934 2 e ISBN 10 0 387 28835 X ISBN 13 978 0 387 27934 3 e ISBN 13

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**Cryptography Apocalypse** Roger A. Grimes, 2019-10-15 Will your organization be protected the day a quantum computer breaks encryption on the internet Computer encryption is vital for protecting users data and infrastructure in the digital age Using traditional computing even common desktop encryption could take decades for specialized crackers to break and government and infrastructure grade encryption would take billions of times longer In light of these facts it may seem that today's computer cryptography is a rock solid way to safeguard everything from online passwords to the backbone of the entire internet Unfortunately many current cryptographic methods will soon be obsolete In 2016 the National Institute of Standards and Technology NIST predicted that quantum computers will soon be able to break the most popular forms of public key cryptography The encryption technologies we rely on every day HTTPS TLS WiFi protection VPNs cryptocurrencies PKI digital certificates smartcards and most two factor authentication will be virtually useless unless you prepare **Cryptography Apocalypse** is a crucial resource for every IT and InfoSec professional for preparing for the coming quantum computing revolution Post quantum crypto algorithms are already a reality but implementation will take significant time and computing power This practical guide helps IT leaders and implementers make the appropriate decisions today to meet the challenges of tomorrow This important book Gives a simple quantum mechanics primer Explains how quantum computing will break current cryptography Offers practical advice for preparing for a post quantum world Presents the latest information on new cryptographic methods Describes the appropriate steps leaders must take to implement existing solutions to guard against quantum computer security threats **Cryptography Apocalypse Preparing for the Day When Quantum Computing Breaks** Today's Crypto is a must have guide for anyone in the InfoSec world who needs to know if their security is ready for the day crypto break and how to fix it

**Group Theoretic Cryptography** Maria Isabel Gonzalez Vasco, Rainer Steinwandt, 2015-04-01 Group theory appears to be a promising source of hard computational problems for deploying new cryptographic constructions This reference focuses on the specifics of using groups including in particular non Abelian groups in the field of cryptography It provides an introduction to cryptography with emphasis on the group theoretic perspective making it one of the first books to use this approach The authors provide the needed cryptographic and group theoretic concepts full proofs of essential theorems and formal security evaluations of the cryptographic schemes presented

They also provide references for further reading and exercises at the end of each chapter

**A Classical Introduction to Cryptography** Serge Vaudenay, 2005-12-19 A Classical Introduction to Cryptography Applications for Communications Security introduces fundamentals of information and communication security by providing appropriate mathematical concepts to prove or break the security of cryptographic schemes This advanced level textbook covers conventional cryptographic primitives and cryptanalysis of these primitives basic algebra and number theory for cryptologists public key cryptography and cryptanalysis of these schemes and other cryptographic protocols e g secret sharing zero knowledge proofs and undeniable signature schemes A Classical Introduction to Cryptography Applications for Communications Security is designed for upper level undergraduate and graduate level students in computer science This book is also suitable for researchers and practitioners in industry A separate exercise solution booklet is available as well please go to [www.springeronline.com](http://www.springeronline.com) under author Vaudenay for additional details on how to purchase this booklet

**Case Studies of Security Problems and Their Solutions** Gunnar Klein, 2000 *Cryptography and Network Security* William Stallings, 2011 This text provides a practical survey of both the principles and practice of cryptography and network security

**Introduction to Cryptography with Mathematical Foundations and Computer Implementations** Alexander Stanoyevitch, 2010-08-09 From the exciting history of its development in ancient times to the present day Introduction to Cryptography with Mathematical Foundations and Computer Implementations provides a focused tour of the central concepts of cryptography Rather than present an encyclopedic treatment of topics in cryptography it delineates cryptographic concepts in chronological order developing the mathematics as needed Written in an engaging yet rigorous style each chapter introduces important concepts with clear definitions and theorems Numerous examples explain key points while figures and tables help illustrate more difficult or subtle concepts Each chapter is punctuated with Exercises for the Reader complete solutions for these are included in an appendix Carefully crafted exercise sets are also provided at the end of each chapter and detailed solutions to most odd numbered exercises can be found in a designated appendix The computer implementation section at the end of every chapter guides students through the process of writing their own programs A supporting website provides an extensive set of sample programs as well as downloadable platform independent applet pages for some core programs and algorithms As the reliance on cryptography by business government and industry continues and new technologies for transferring data become available cryptography plays a permanent important role in day to day operations This self contained sophomore level text traces the evolution of the field from its origins through present day cryptosystems including public key cryptography and elliptic curve cryptography

*Six Lectures Concerning Cryptography and Cryptanalysis* William Frederick Friedman, 1996 *Modern Cryptography: Applied Mathematics for Encryption and Information Security* Chuck Easttom, 2015-10-09 This comprehensive guide to modern data encryption makes cryptography accessible to information security professionals of all skill levels with no math expertise required Cryptography underpins

today's cyber security however few information security professionals have a solid understanding of these encryption methods due to their complex mathematical makeup Modern Cryptography Applied Mathematics for Encryption and Information Security leads readers through all aspects of the field providing a comprehensive overview of cryptography and practical instruction on the latest encryption methods The book begins with an overview of the evolution of cryptography and moves on to modern protocols with a discussion of hashes cryptanalysis and steganography From there seasoned security author Chuck Easttom provides readers with the complete picture full explanations of real world applications for cryptography along with detailed implementation instructions Unlike similar titles on the topic this reference assumes no mathematical expertise the reader will be exposed to only the formulas and equations needed to master the art of cryptography Concisely explains complex formulas and equations and makes the math easy Teaches even the information security novice critical encryption skills Written by a globally recognized security expert who has taught cryptography to various government and civilian groups and organizations around the world

**Practical Cryptography** Niels Ferguson, Bruce Schneier, 2003-04-17 Security is the number one concern for businesses worldwide The gold standard for attaining security is cryptography because it provides the most reliable tools for storing or transmitting digital information Written by Niels Ferguson lead cryptographer for Counterpane Bruce Schneier's security company and Bruce Schneier himself this is the much anticipated follow up book to Schneier's seminal encyclopedic reference Applied Cryptography Second Edition 0 471 11709 9 which has sold more than 150 000 copies Niels Ferguson Amsterdam Netherlands is a cryptographic engineer and consultant at Counterpane Internet Security He has extensive experience in the creation and design of security algorithms protocols and multinational security infrastructures Previously Ferguson was a cryptographer for DigiCash and CWI At CWI he developed the first generation of off line payment protocols He has published numerous scientific papers Bruce Schneier Minneapolis MN is Founder and Chief Technical Officer at Counterpane Internet Security a managed security monitoring company He is also the author of Secrets and Lies Digital Security in a Networked World 0 471 25311 1

**Cryptography, Information Theory, and Error-Correction** Aiden A. Bruen, Mario A. Forcinito, 2005 Discover the first unified treatment of today's most essential information technologies Compressing Encrypting and Encoding With identity theft cybercrime and digital file sharing proliferating in today's wired world providing safe and accurate information transfers has become a paramount concern The issues and problems raised in this endeavor are encompassed within three disciplines cryptography information theory and error correction As technology continues to develop these fields have converged at a practical level increasing the need for a unified treatment of these three cornerstones of the information age Stressing the interconnections of the disciplines Cryptography Information Theory and Error Correction offers a complete yet accessible account of the technologies shaping the 21st century This book contains the most up to date detailed and balanced treatment available on these subjects The authors draw on their experience both in the classroom and in industry giving the

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**Cryptography and Data Security** Dorothy Elizabeth Robling Denning,1982  
Encryption algorithms Cryptographic technique Access controls Information controls Inference controls

**Advances in Cryptology** ,1999 *Three Results in Number Theory and Cryptography* René Caupolicañ Peralta,1985

**Java Cryptography Extensions** Jason Weiss,2004-03-12 Today's digital environment demands that every application design consider security early on in the design process This title details a set of Java Cryptography Extensions JCE and includes code examples and a supplemental open source cryptography toolkit

**Cryptography for Visual Basic** Richard Bondi,2000-09-15 CD ROM includes WCCO 1 0 Source Code WCCO 1 0 Manual WCCO Test Code CryptoAPI Container Manager Regasaurus program

[The Mathematical Gazette](#) ,1907

**Engineering Mathematics with Mathematica** John S. Robertson,1995 This supplementary text for applied mathematics courses where Mathematica is used in a laboratory setting is intended to be compatible with a broad range of engineering mathematics texts as well as smaller more specialized texts in differential equations and complex variables It covers topics found in courses on ordinary and partial differential equations vector analysis and applied complex analysis Students are guided through a series of laboratory exercises that present cogent applications of the mathematics and demonstrate the use of Mathematica as a computational tool to do the mathematics Relevant applications along with discussions of the results obtained combine to stimulate innovative thinking from the students about additional concepts and applications

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