Implementasi Algoritma Kriptografi Rijndael Untuk

The Design of RijndaelThe Design of RijndaelMekanisme Sistem Pengamanan Dokumen dan Distribusi Naskah Dinas Di Lingkungan Kepolisian Negara Republik Indonesia : dengan Menggunakan Quick Response Code dan Algoritma Tanda Tangan Digital Kurva EliptikTWO BOOKS IN ONE: Koleksi Projek C# dan VBMatriks, Vektor dan Terapanya di Bidang TeknikA Very Compact Rijndael S-BoxEmerging Computer TechnologiesKumpulan Program Penyandian Data dengan VB .NETKeamanan InformasiSystem-on-Chip Architectures and Implementations for Private-Key Data EncryptionKEAMANAN KOMPUTER DAN INTERNETLindungi Data Penting AndaAlgebraic Aspects of the Advanced Encryption StandardPengantar NISTSecurity and Cryptography for NetworksReport on the Development of the Advanced Encryption Standard (AES)Cryptography for Internet and Database ApplicationsEncrypt, Sign, AttackFault Diagnosis and Tolerance in CryptographyFast Software Encryption Joan Daemen Joan Daemen Komisaris Polisi Ruzi Gusman, S.H., S.I.K., M.Si., M.T., M.Sc. Vivian Siahaan Dr. Hj. Sri Artini Dwi Prasetyowati M.Si D. Canright Gligor Risteski Vivian Siahaan Miftahul Huda Máire McLoone Asrul Sani Bambang P Putranto Carlos Cid Muhammad Afdan Rojabi Roberto De Prisco James Nechvatal Nick Galbreath Olaf Manz Luca Breveglieri Alex Biryukov

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Keamanan Informasi System-on-Chip Architectures and Implementations for Private-Key Data Encryption KEAMANAN KOMPUTER DAN INTERNET Lindungi Data Penting Anda Algebraic Aspects of the Advanced Encryption Standard Pengantar NIST Security and Cryptography for Networks Report on the Development of the Advanced Encryption Standard (AES) Cryptography for Internet and Database Applications Encrypt, Sign, Attack Fault Diagnosis and Tolerance in Cryptography Fast Software Encryption *Joan Daemen Joan Daemen Komisaris Polisi Ruzi Gusman, S.H., S.I.K., M.Si., M.T., M.Sc. Vivian Siahaan Dr. Hj. Sri Artini Dwi Prasetyowati M.Si D. Canright Gligor Risteski Vivian Siahaan Miftahul Huda Máire McLoone Asrul Sani Bambang P Putranto Carlos Cid Muhammad Afdan Rojabi Roberto De Prisco James Nechvatal Nick Galbreath Olaf Manz Luca Breveglieri Alex Biryukov*

rijndael was the surprise winner of the contest for the new advanced en cryption standard aes for the united states this contest was organized and run by the national institute for standards and technology nist be ginning in january 1997 rijndael was announced as the winner in october 2000 it was the surprise winner because many observers and even some participants expressed scepticism that the d s government would adopt as an encryption standard any algorithm that was not designed by d s citizens yet nist ran an open international selection process that should serve as model for other standards organizations for example nist held their 1999 aes meeting in rome italy the five finalist algorithms were designed by teams from all over the world in the end the elegance efficiency security and principled design of rijndael won the day for its two belgian designers joan daemen and vincent rijmen over the competing finalist designs from rsa ibm counterpane systems and an englishjisraelijdanish team this book is the story of the design of rijndael as told by the designers themselves it outlines the foundations of rijndael in relation to the previous ciphers the authors have designed it explains the mathematics needed to and the operation of rijndael and it provides reference c code and underst test vectors for the cipher

an authoritative and comprehensive guide to the rijndael algorithm and advanced encryption standard aes aes is expected to

gradually replace the present data encryption standard des as the most widely applied data encryption technology this book written by the designers of the block cipher presents rijndael from scratch the underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked subsequent chapters review all known attacks against the rijndael structure and deal with implementation and optimization issues finally other ciphers related to rijndael are presented

judul mekanisme sistem pengamanan dokumen dan distribusi naskah dinas di lingkungan kepolisian negara republik indonesia dengan menggunakan quick response code dan algoritma tanda tangan digital kurva eliptik penulis komisaris polisi ruzi gusman s h s i k m si m t m sc ukuran 15 5 x 23 cm tebal 117 halaman cover soft cover no isbn 978 623 162 250 1 sinopsis keamanan dokumen dan proses distribusi naskah dinas di lingkungan polri mutlak diperlukan agar informasi rahasia polri tidak bocor dan jatuh ke tangan yang tidak berkepentingan kombinasi teknologi qr code dan algoritma tanda tangan digital kurva eliptik diajukan sebagai solusi dalam memberikan pengamanan kepada dokumen naskah dinas dan proses distribusinya qr code merupakan teknologi penyampaian pesan yang mudah digunakan dengan menggunakan qr code pesan diamankan didalam bentuk gambar acak dengan modul hitam putih yang tidak bisa dibaca mata manusia sedangkan penggunaan algoritma tanda tangan digital kurva eliptik dapat menghadirkan aspek pengamanan dokumen dalam hal otentikasi pengirim dan penerima naskah dinas penjaminan integritas isi dari naskah dinas dan nir penyangkalan

buku 1 koleksi projek c net buku teori tentang kriptografi watermarking steganografi dan pengkodean data sudah banyak beredar tetapi sangat sedikit yang menunjukkan bagaimana setiap teori tersebut digunakan dan diimplementasikan dengan bahasa pemrograman tertentu buku ini di sisi lain tidak memberikan teori karena teori teori tersebut dapat anda peroleh dari banyak buku lain buku ini menyajikan kepada anda bagaimana mengimplamentasikan sejumlah algoritma kriptografi watermarking steganografi dan pengkodean data berbasis visual c dengan memanfaatkan pustaka net visual c merupakan bahasa pemrograman

yang telah luas digunakan sejak lahirnya pada tahun 1991 visual c 2012 dan 2013 menawarkan beberapa pembaharuan unik para programer visual c sangat antusias mengadopsi fitur fitur tangguh dari bahasa ini pembelajar dapat membuktikan bahwa visual c merupakan perangkat ideal untuk memahami perkembangan pemrograman komputer tujuan utama dari buku ini adalah memberikan kesempatan bagi para pembelajar untuk memperbaiki keterampilan pemrograman visual c dalam mengimplementasikan sejumlah kasus kriptografi watermarking steganografi dan pengkodean data dengan penyelesaian berbagai kasus tersebut buku ini mendorong para pembelajar untuk mengeksplorasi terapan visual c sebagai perangkat pembantu dalam menyelesaikan topik topik yang lebih rumit berikut merupakan kasus kasus yang disajikan pada buku ini kriptosistem simetris dan integritas data kriptosistem rc4 kriptosistem des kriptosistem tripedes kriptosistem rijndael kriptosistem rijndael untuk enkripsi file kriptosistem rc2 des rijndael kriptosistem rc2 des rijndael dengan password kriptosistem tea kriptosistem xor kriptosistem blowfish twofish hash md5 dan sha1 mesin enigma kriptosistem asimetris kriptosistem rsa kriptosistem rsa dengan editor kriptosistem rsa untuk citra digital kriptosistem fraktal kriptosistem otomata seluler kriptosistem visual watermarking dan steganografi watermarking teks pada citra watermarking teks pada citra kasus 2 watermarking dan mdi steganografi pada citra staganografi teks pada suara pengkodean data pohon biner pohon fraktal enkoder basis 64 kode batang upca kode batang ean13 kode batang postnet algoritma algoritma graham scan algoritma a untuk mencari jalur terpendek algoritma pengklasteran k means algoritma levenshtein algoritma jst hopfield algoritma jst back propagation algoritma kalman algoritma fuzzy untuk pengendali crane kontrol pid grafika 2d 3d grafik fungsi interpolasi newton interpolasi polinomial interpolasi spline filter sederhana untuk citra digital filter lanjut untuk citra digital buku 2 koleksi projek visual basic net dan visual c net visual basic dan visual c merupakan bahasa pemrograman yang telah luas digunakan sejak lahirnya pada tahun 1991 visual basic dan visual c 2012 dan 2013 menawarkan beberapa pembaharuan unik para programer visual basic dan visual c sangat antusias mengadopsi fitur fitur tangguh dari bahasa ini pembelajar pemula akan membuktikan bahwa keduanya merupakan perangkat ideal untuk memahami perkembangan pemrograman komputer buku ini membantu pembelajar agar secara utuh memahami logika semantika dan

sintaksis dari pemrograman melalui kasus kasus windows form animasi dan game buku ini membantu mengatrol kompetensi pemrograman dari pembelajar awal yang sering mengalami kesulitan dalam memahami konsep dan paradigma dasar dari bahasa pemrograman level tinggi buku ini dimaksudkan sebagai buku mandiri yang memuat sejumlah projek projek program visual basic dan visual c tujuan utama dari buku ini adalah memberikan kesempatan bagi para pembelajar untuk memperbaiki keterampilan pemrograman visual basic dan visual c dalam mengimplementasikan sejumlah kasus khususnya animasi dan game dengan penyelesaian berbagai kasus tersebut buku ini mendorong para pembelajar untuk mengeksplorasi terapan visual basic dan visual c sebagai perangkat pembantu dalam menyelesaikan topik topik yang lebih rumit beberapa sasaran ketika buku teks ini ditulis adalah 1 mengembangkan bab bab secara terfokus daripada merangkum banyak bab dengan kedalaman permukaan saja buku ini hanya difokuskan pada subjek subjek bahasan konsentrasi windows form animasi dan game 2 menggunakan windows form animasi dan game meskipun data uji pada program tidak merepresentasikan data riil tetapi kekayaan kasus pada buku ini mengilustrasikan banyak teknik pemrograman yang sangat dibutuhkan para pembejalar 3 menjadikan buku bagi pembelajar mandiri pada tiap fokus bahasan buku ini tidak bertele tele langsung ke sasaran dengan penyajian kasus kasus buku ini bisa dipakai sebagai panduan cepat bagi para insinyur atau programer berikut merupakan kasus kasus yang disajikan pada buku ini kompilasi projek visual basic tingkat dasar kalkulator sederhana kalkulator saintifik sederhana kalkulator saintifik aplikasi catatan sederhana textpad captcha validasi form sistem aplikasi parkir sederhana aplikasi pembayaran restoran dan kafe sistem informasi mahasiswa brain game game menangkap bola stopwatch game tic tac toe penghitung huruf vokal dan huruf konsonan drag and drop penggambar grafik penghitung mundur penggulung teks event hover pemindahan konten listbox metode metode list penghitung kecepatan pengetikan media player mp3 player cash register restoran wordpad game hangman game ular game pacman kompilasi projek visual basic tingkat menengah kalkulator lanjut daftar warna digitizer game mencocokkan binatang konverter biner game mencocokkan ikon menampilkan kode karakter konsol dj game total 15 keyboard midi keyboard perekam suara game tetris jam progressbar mp3 dan mp4 player kompilasi projek visual basic tingkat lanjut game cheese carousel citra

kalender bangun 3d sederhana merotasi kubik 3d game mengacak angka sistem administrasi nilai administrasi phonebook tanpa database game penyerang game pendekar file downloader listview watermark game tetris pro bonus kompilasi game dengan visual c game hangman game bata game batu gunting kertas game melatih otak game tic tic toe game pemakan game jigsaw game tetris game dot game pesawat tempur game pemakan versi 2 0

buku ini mengupas teori tentang matriks dan vektor secara ringkas dan mudah sehingga para pembaca dapat menggunakan matriks dan vektor sebagai alat untuk mencari solusi masalah yang ada di teknik khususnya teknik elektro dan teknik informatika

one key step in the advanced encryption standard aes or rijndael algorithm is called the s box the only nonlinear step in each round of encryption decryption a wide variety of implementations of aes have been proposed for various desiderata that effect the s box in various ways in particular the most compact implementation to date of satoh et al performs the 8 bit galois field inversion of the s box using subfields of 4 bits and of 2 bits this work describes a refinement of this approach that minimizes the circuitry and hence the chip area required for the s box while satoh used polynomial bases at each level we consider also normal bases with arithmetic optimizations altogether 432 different cases were considered the isomorphism bit matrices are fully optimized improving on the greedy algorithm the best case reduces the number of gates in the s box by 16 this decrease in chip area could be important for area limited hardware implementations e g smart cards and for applications using larger chips this approach could allow more copies of the s box for parallelism and or pipelining in non feedback modes of aes

there is rapid development and change in the field of computer science today these affect all areas of life emerging topics in computer science are covered in this book in the first chapter there is a log data analysis case study that aims to understand hadoop and mapreduce by example in the second chapter encrypted communication has been tried to be provided on iot devices performing edge computing in this way it is aimed to make communication secure arduino is used as an iot device in the

encryption process aes encryption is used with 128 bit and 256 bit key lengths the third chapter presents a more secure connection between the nodemcu and blynk using the aes algorithm it is aimed to prevent a vulnerability in the connection of google home devices with iot during the blynk iot connection phase the next chapter presents a methodological tool based on an evaluation framework for integration of digital games into education medge expanded by adding additional information from the students medge the fifth and last chapter proposes a disaster management system utilising machine learning called dtdms that is used to support decision making mechanisms

visual basic merupakan bahasa pemrograman yang telah luas digunakan sejak lahirnya pada tahun 1991 visual basic 2012 2013 dan versi seterusnya menawarkan beberapa pembaharuan unik para programer visual basic sangat antusias mengadopsi fitur fitur tangguh dari bahasa ini pembelajar dapat membuktikan bahwa visual basic merupakan perangkat ideal untuk memahami perkembangan pemrograman komputer buku teori tentang kriptografi sudah banyak beredar tetapi sangat sedikit yang menunjukkan bagaimana setiap kriptosistem digunakan dan diimplementasikan dengan bahasa pemrograman tertentu buku ini di sisi lain tidak memberikan teori karena teori kriptografi dapat anda dapatkan dari banyak buku lain buku ini menyajikan kepada anda bagaimana mengimplamentasikan sejumlah kriptosistem fungsi hash dan sidik digital berbasis visual basic dengan memanfaatkan pustaka net tujuan utama dari buku ini adalah memberikan kesempatan bagi para pembelajar untuk memperbaiki keterampilan pemrograman visual basic dalam mengimplementasikan sejumlah kasus kriptografi dengan penyelesaian berbagai kasus tersebut buku ini mendorong para pembelajar untuk mengeksplorasi terapan visual basic sebagai perangkat pembantu dalam menyelesaikan topik topik kriptografi yang lebih rumit berikut merupakan kasus kasus yang disajikan pada buku ini kriptosistem simetris algoritma rc4 algoritma aes algoritma tripledes algoritma idea algoritma rijndael algoritma rijndael versi 2 algoritma rc2 algoritma des algoritma des versi 2 fungsi hash dan otentikasi pesan fungsi hash md5 fungsi hash sha1 ripemd160 fungsi hash sha256 fungsi hash sha512 fungsi hash sha384 sejumlah otentikasi hmac tanda tangan dan verifikasi dengan md5 tanda tangan dan verifikasi dengan sha1 tanda tangan dan verifikasi dengan sha256 tanda tangan dan verifikasi dengan sha384

tanda tangan dan verifikasi dengan sha512 kriptosistem asimetris dan sidik digital kriptosistem rsa sidik digital dengan rsa membangkitkan kunci berbasis password dengan pkcs5 sidik digital dengan dsa bonus pemrosesan citra digital manipulasi citra konversi citra penapisan citra penapisan citra lanjut

pembelanjaan di bidang keamanan jaringan komputer dan keamanan informasi terus meningkat mengenali jenis ancaman keamanan yang terjadi di dalam jaringan komputer yang digunakan menjadi satu langkah menuju solusi untuk menghadapinya jumlah infrastruktur dan sumber daya manusia yang memenuhi persyaratan mampu mengamankan internet masih kurang banyak hal itu menyebabkan pihak pihak yang ingin menghitung anggaran kebutuhan infrastruktur keamanan informasi menjadi bingung tidak adanya gambaran tentang peralatan yang harus dibeli menjadikan pihak tersebut sulit menentukan batasan biaya salah satu pilihan bagi pekerja teknologi informasi adalah mempelajari kerangka kerja strategis yang menilai risiko bisnis dari kejahatan dunia maya dan mengembangkan buku pedoman untuk memerangi kejahatan dunia maya hal itu menyebabkan keahlian yang dimiliki menjadi berharga dan dinilai lebih oleh berbagai pihak setelah menyelesaikan membaca buku ini pembaca dapat lebih paham tentang cara untuk mengamankan komputer dan jaringan komputer terhadap berbagai ancaman yang telah terjadi maupun ancaman jenis baru hasil penelitian dari malwarebytes melaporkan adanya peningkatan jumlah ransomware sebesar 500 dari tahun 2018 hingga tahun 2019

in system on chip architectures and implementations for private key data encryption new generic silicon architectures for the des and rijndael symmetric key encryption algorithms are presented the generic architectures can be utilised to rapidly and effortlessly generate system on chip cores which support numerous application requirements most importantly different modes of operation and encryption and decryption capabilities in addition efficient silicon sha 1 sha 2 and hmac hash algorithm architectures are described a single chip internet protocol security ipsec architecture is also presented that comprises a generic rijndael design and a highly efficient hmac sha 1 implementation in the opinion of the authors highly efficient hardware implementations of

cryptographic algorithms are provided in this book however these are not hard fast solutions the aim of the book is to provide an excellent guide to the design and development process involved in the translation from encryption algorithm to silicon chip implementation

buku keamanan komputer dan internet menyajikan pembahasan yang komprehensif mengenai konsep tantangan serta strategi pengamanan sistem komputer dan internet di era digital materi diawali dengan pengantar yang menguraikan latar belakang definisi ruang lingkup serta berbagai ancaman dan risiko siber yang dihadapi oleh individu maupun organisasi disertai penekanan pada pentingnya kesadaran keamanan selanjutnya buku ini membahas konsep dasar keamanan komputer prinsip prinsip fundamental hubungan keamanan komputer dengan jaringan peran pengguna serta kebijakan dan praktik keamanan yang efektif ancaman dalam dunia maya dikaji secara mendalam melalui identifikasi jenis jenis serangan teknik dan metode yang digunakan dampak yang ditimbulkan studi kasus serangan siber besar serta tren ancaman di masa depan aspek enkripsi dan teknologi keamanan dipaparkan mulai dari sejarah kriptografi hingga penerapan enkripsi modern algoritma asimetris serta pengelolaan kunci dan infrastruktur kunci publik pembahasan keamanan jaringan dan aplikasi menekankan pada teknologi perlindungan manajemen akses autentikasi pengujian keamanan serta praktik terbaik dalam pengembangan perangkat lunak yang aman buku ini juga mengulas keamanan data dan privasi peran pengguna dalam menjaga keamanan internet serta tantangan dan solusi dalam keamanan e commerce dan transaksi digital pada bagian akhir dibahas perkembangan keamanan komputer di masa depan beserta evolusi ancaman siber yang menyertainya secara keseluruhan buku ini ditujukan sebagai referensi akademik dan praktis bagi mahasiswa pendidik dan praktisi untuk memahami serta menerapkan prinsip keamanan komputer dan internet secara menyeluruh dan berkelanjutan

the advanced encryption standard aes is the successor to the data encryption standard and is potentially the world s most important block cipher a method for encrypting text while existing analytical techniques for block ciphers have used a statistical

approach this book provides a comprehensive analysis of the application of algebraic techniques to the advanced encryption standard aes these techniques may have a dramatic effect on the security of the aes

di era di mana data menjadi aset paling berharga dan ancaman siber terus berevolusi standar keamanan dan teknologi yang andal menjadi sebuah keharusan pengantar nist adalah panduan esensial yang mengupas tuntas peran krusial national institute of standards and technology nist sebagai otoritas terkemuka di balik standar teknologi global buku ini akan membawa anda dari pengenalan nist sejarah dan misinya hingga aplikasi praktis dari kerangka kerja dan standarnya yang paling berpengaruh anda akan memahami secara mendalam tentang nist cybersecurity framework csf sebuah panduan yang diadopsi secara luas untuk membantu organisasi mengelola risiko siber selain itu buku ini juga membahas nist sp 800 series sebuah seri publikasi teknis yang menjadi referensi utama bagi para profesional keamanan siber di seluruh dunia tidak hanya fokus pada keamanan siber buku ini juga menjelaskan peran nist dalam menetapkan standar metrologi yang fundamental bagi sains dan industri serta kontribusinya dalam program kualitas seperti baldrige excellence framework melalui penjelasan yang lugas dan studi kasus yang relevan anda akan melihat bagaimana standar standar ini tidak hanya melindungi data tetapi juga mendorong inovasi dan meningkatkan daya saing global pengantar nist adalah referensi wajib bagi mahasiswa profesional it pimpinan bisnis dan siapa pun yang ingin memahami bagaimana standar teknologi membentuk dunia kita bersiaplah untuk mendapatkan wawasan yang komprehensif dan praktis yang akan menjadi fondasi kuat bagi perjalanan anda di dunia digital

here are the refereed proceedings of the 5th international conference on security and cryptology for networks scn 2006 the book offers 24 revised full papers presented together with the abstract of an invited talk the papers are organized in topical sections on distributed systems security signature schemes variants block cipher analysis anonymity and e commerce public key encryption and key exchange secret sharing symmetric key cryptanalisis and randomness applied authentication and more

in 1997 nist initiated a process to select a symmetric key encryption algorithm to be used to protect sensitive unclass fed info in 1998 nist announced the acceptance of 15 candidate algorithms and requested the assistance of the cryptographic research community in analyzing the candidates this analysis included an initial exam of the security and efficiency characteristics for each algorithm nist reviewed the results of this research and selected mars rc rijndael serpent and twofish as finalists after further public analysis of the finalists nist has decided to propose rijndael as the aes the research results and rationale for this selection are documented here

cryptography is the gold standard for security it is used to protect the transmission and storage of data between two parties by encrypting it into an unreadable format cryptography has enabled the first wave of secure transmissions which has helped fuel the growth of transactions like shopping banking and finance over the world s biggest public network the internet many internet applications such as e mail databases and browsers store a tremendous amount of personal and financial information but frequently the data is left unprotected traditional network security is frequently less effective at preventing hackers from accessing this data for instance once private databases are now completely exposed on the internet it turns out that getting to the database that holds millions of credit card numbers the transmission is secure through the use of cryptography but the database itself isn t fueling the rise of credit card information theft a paradigm shift is now under way for cryptography the only way to make data secure in any application that runs over the internet is to use secret also known as private key cryptography the current security methods focus on securing internet applications using public keys techniques that are no longer effective in this groundbreaking book noted security expert nick galbreath provides specific implementation guidelines and code examples to secure database and based applications to prevent theft of sensitive information from hackers and internal misuse

this book explains compactly without theoretical superstructure and with as little mathematical formalism as possible the essential concepts in the encryption of messages and data that require protection the focus is on the description of the historically and for

practice important cipher signature and authentication methods both symmetric encryption and public key ciphers are discussed in each case the strategies used to attack and attempt to crack encryption are also discussed special emphasis is placed on the practical use of ciphers especially in the everyday environment the book is suitable for working groups at stem schools and stem teacher training for introductory courses at universities as well as for interested students and adults the author dr olaf manz first worked as a research assistant and heisenberg professor at the mathematical institutes of the universities of mainz and heidelberg he then worked for many years at siemens in it product management and knows cryptography from the practical side he is also the author of the book error correcting codes also published by springer this book is a translation of the original german 1st edition verschlüsseln signieren angreifen by olaf manz published by springer verlag the translation was done with the help of artificial intelligence machine translation by the service deepl com a subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation springer nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

this book constitutes the refereed proceedings of the third international workshop on fault diagnosis and tolerance in cryptography fdtc 2006 held in yokohama japan in october 2006 the 12 revised papers of fdtc 2006 are presented together with nine papers from fdtc 2004 and fdtc 2005 that passed a second round of reviewing they all provide a comprehensive introduction to the issues faced by designers of robust cryptographic devices

this book contains the thoroughly refereed post proceedings of the 14th international workshop on fast software encryption fse 2007 held in luxembourg luxembourg march 2007 it addresses all current aspects of fast and secure primitives for symmetric cryptology covering hash function cryptanalysis and design stream ciphers cryptanalysis theory block cipher cryptanalysis block cipher design theory of stream ciphers side channel attacks and macs and small block ciphers

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