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encryption scheme, and is not readable by humans. • E is the encryption function. We write, for example, E(P) = C to mean that applying the encryption process E to the plaintext P produces the ciphertext C. • D is the decryption function, i.e. D(C) = P. Note D(E(P)) = P and E(D(C)) = C. 2

The mathematics of cryptology

Shamir-Adleman, or RSA, encryption scheme is the mathematical task of factoring. Factoring a number means identifying the prime numbers which, when multiplied together, produce that number. Thus 126,356 can be factored into 2 x 2 x 31 x 1,019, where 2, 31, and 1,019 are all prime.

The science of encryption: prime numbers and mod arithmetic

Equivalently, the last term is $n- (k- 1)$. We've just shown that the number of ways to choose kpeople from npeople (with order mattering) is $n(n- 1)\cdots(n- (k- 1))$. This wants to be a factorial, but it doesn't go all the way down to 1. To remedy this, let's argue as before and multiply by $(n- k)!/(n- k)!$.

TheMathematicsofEncryption: An ElementaryIntroduction

Little mathematics background is assumed on the part of the reader, and a strict "theorem/proof" format is eschewed. To this extent, the book is suitable for a general undergraduate audience. However, the reader of this book is expected to be willing to think hard about some issues, and some real mathematics is discussed here.

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An encryption algorithm is the mathematical formula used to transform data into ciphertext. An algorithm will use the key in order to alter the data in a predictable way, so that even though the encrypted data will appear random, it can be turned back into plaintext by using the key again.

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