A Classical Introduction to Cryptography Exercise Book: Errata Page

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http://www.intro-to-crypto.info

October 26, 2007

If you find a mistake in the book, please report it to `thomas.baignerez@epfl.ch`.

1 Prehistory of Cryptography

p. 8, Solution 1. In question 4, diagrams (a) and (c) do represent a surjective function.

2 Conventional Cryptography

p. 37, Solution 5. In question 1(a), one should read $2^{55.2}$2DES and 2^{111}2DES for the worst-case and the average case respectively.
p. 38, Solution 6. In the second question, the probability that a given plaintext P is mapped on a given ciphertext C through the uniformly distributed random permutation C^* should be expanded as follows:

$$\begin{aligned}\Pr[C^*(P) = C] &= \sum_{c^*} \mathbf{1}_{c(P)=C} \Pr[C^* = c] \\ &= \frac{1}{(2^q)!} \sum_{c} \mathbf{1}_{c(P)=C}\end{aligned}$$

p. 41, Solution 7. The solution of question 7 is completely wrong, and solving it in a proper way is more complicated than we first thought it was. It is true that

$$x_4 = x'_4 \text{ and } c_4 = c'_4 \Rightarrow y_L = y'_L$$

but the converse is not necessarily true. We thus need to evaluate the probability that $x_4 = x'_4$ and $c_4 = c'_4$ when $y_L = y'_L$.

As a preliminary to the solution of this question, consider the building block shown on Figure 1. We consider a uniformly distributed random permutation $C^* : \{0,1\}^\ell \to \{0,1\}^\ell$ and wonder about the

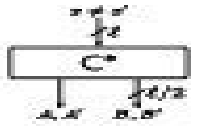

Figure 1: Computing the probability of a collision on half the output of a uniformly distributed random permutation.

probability that the right-most (or left-most) $\ell/2$ bits of $C^*(x)$ and of $C^*(x')$ collide when $x \neq x'$. Using

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