

Affine Cipher using 2 alphabet

Source: <http://www.derkeiler.com/Newsgroups/sci.crypt/2005-04/2001.html>

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Hi

i have the following problem:

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Crypted text using Affine Cipher with 2 alphabet.

Affine cipher = $C = a * P + b$

what is the best way to encrypt such a cipher ?

As there are 2 Alp. there are lots of possibilities i think.

Any idea ?

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Crypted Text:

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TFNSHJNYAXEXACDHAYBUBYJDQCDKJGADEHFQNCQPTFXAHLJNQZCNRGHSNQCHZXQDEFCJJSO

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Splitted into 2 Strings:

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Alp 1:

TNHNAEADABBJQDJAEFNQTXHLNZNRHNCZQECJCUSEWEMNNCWVXOJECUVFZNREUATFHKKH

FREQUENCY ANALYSIS:

A : 5, Percentage : 7%

B : 2, Percentage : 2%

C : 5, Percentage : 7%

D : 2, Percentage : 2%

E : 7, Percentage : 10%

F : 3, Percentage : 4%

G : 0, Percentage : 0%

H : 6, Percentage : 8%

I : 0, Percentage : 0%

J : 4, Percentage : 5%

K : 1, Percentage : 1%

L : 1, Percentage : 1%

M : 1, Percentage : 1%

N : 9, Percentage : 13%

O : 1, Percentage : 1%

sci.crypt: Affine Cipher using 2 alphabet

P : 0, Percentage : 0%
Q : 3, Percentage : 4%
R : 2, Percentage : 2%
S : 1, Percentage : 1%
T : 3, Percentage : 4%
U : 3, Percentage : 4%
V : 2, Percentage : 2%
W : 2, Percentage : 2%
X : 2, Percentage : 2%
Y : 0, Percentage : 0%
Z : 3, Percentage : 4%

Alp 2:

FSJYXXCHYUYDCKGDHQCPCFARJQCNGSQHXDFJSFZNBDXBSQGFNADAFRHFMCNAFHTACEXCZ
FREQUENCY ANALYSIS:

A : 5, Percentage : 7%
B : 2, Percentage : 2%
C : 7, Percentage : 10%
D : 5, Percentage : 7%
E : 1, Percentage : 1%
F : 8, Percentage : 11%
G : 3, Percentage : 4%
H : 5, Percentage : 7%
I : 0, Percentage : 0%
J : 3, Percentage : 4%
K : 1, Percentage : 1%
L : 0, Percentage : 0%
M : 1, Percentage : 1%
N : 4, Percentage : 5%
O : 0, Percentage : 0%
P : 1, Percentage : 1%
Q : 4, Percentage : 5%
R : 2, Percentage : 2%
S : 4, Percentage : 5%
T : 1, Percentage : 1%
U : 1, Percentage : 1%
V : 0, Percentage : 0%
W : 0, Percentage : 0%
X : 5, Percentage : 7%
Y : 3, Percentage : 4%
Z : 2, Percentage : 2%

Greetings

Florian