

Cryptography tutorial

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1. Produce the keyword mixed sequences based on the following keywords

- i) SAUSAGE
- ii) MEATBALL
- iii) EGGPLANT

2. Use each of the sequences in question 1 to encipher the following messages .

- i) NOT TONIGHT, I HAVE A HEADACHE .
- ii) A DAY WITHOUT SUNSHINE IS LIKE, NIGHT .

3. Determine the *keywords* that were used to produce the following keyword mixed sequences .

- i) PAGMUZHBIIQVOCJRWNDK SXEFLTY
- ii) CAKYOB LZMDNPFQUGSTHVEIWRJX
- iii) KADHLORUXEBFIMPSVZYCGJNQFW

4. Decipher the cryptotexts enciphered with keyword mixed sequences using keyword SAUSAGE

- i) LSEFQ CTHCS UTLIP UTTIQ QCTHC PUTLT Q
- ii) KPQCU KAJLZ PPUWF PPZQP SQSUT KQTNZ PPU

Cryptography tutorial 3

1. Use columnar transposition enciphering with keyword CREAMPUFF to encipher the following plaintexts

11) NINETY NINE PERCENT OF LAWYERS GIVE THE REST A BAD NAME .

11) ON THE OTHER HAND, YOU HAVE DIFFERENT FINGERS .

2. Use columnar transposition deciphering with keyword FROGSTOMP to decipher the following ciphertexts

ILEGT EODTE SXNVS ODRRX OVOXI IROEF FINOA X

HOORF EREPK LEILA VEUEG ENOKA PWATY ERHOB A

3. * (Optional) If we repeatedly apply the rail fence cipher to the message I CAME I SAW I CONQUERED

how many iterations are required before we reobtain the original message?

4. Use the Pigpen cipher to encipher

1) PIGPEN

11) DOG BOX

5. Decipher the following Pigpen encrypted words

1) L J F F E E L

11) F F L L F F E F