## CRYPTANALYSIS PROBLEM

## What is frequency analysis? (Definition)

Frequency analysis is the study of the distribution of the letters in a text. Analysis of frequencies help decrypting substitution-based ciphers using the fact that some letters apparitions are varying in a given language: in English, letters E, T or A are common while Z or Q are rare.

## How to use frequency analysis?

Frequency analysis allows decrypting a text by comparing letters frequencies in a plain text message with letters frequencies in a ciphered message.

For this challenge problem I want you to create a program that reads in the data below (crypto.txt). Where the first number is the number of sentences and then produce a sorted listed (descending) order of the frequency of the letters in the sentences

Input: (crypto.txt) 3 This is a test. Count me 1 2 3 4 5. Wow!!!! Is this question easy? Output: S 7 T 6 15 E 4 03 H 2 A 2 N 2 U 2 W 2 M 1 Q 1 C 1 Y 1

What to learn more. Go here: <a href="https://www.dcode.fr/frequency-analysis">https://www.dcode.fr/frequency-analysis</a>