

Lab1 Cryptoanalysis

Try a ciphertext-only attack against the [Caesar cipher](#) by performing a [frequency analysis](#):

URKAG QZODK BFMPA OGYQZ FFTQD QEGXF IUXXN QETAI ZUZMZ QIEGN
IUZPA IFTQF UFXQA RFTQD QEGXF UZSIU ZPAIO AZFMU ZENAF TFTQZ
MYQAR FTQAD USUZM XPAOG YQZFM ZPFTQ QZODK BFUAZ WQKGE QPFTQ
GEMSQ ARWQK EUEEG BBADF QPNKF IAEBQ OUMXU OAZE O XUOWU ZSFTQ
UOAZE TAIWQ KMXXA IEKAG FAEFA DQMOA BKARF TQWQK GEQPR DAYMD
QEGXF UZSIU ZPAIU ZFAMZ UZFQD ZMXEF ADMSQ URKAG FTQZQ ZODKB
FMZAF TQDPA OGYQZ FIUFT FTQEM YQQZO DKBFU AZYQF TAPFT QUOAZ
UZEQD FWQKU EMOFU HQUIF TUZFT QWQKQ ZFDKP UMXAS NAJFT UEUET
QXBRG XQEBQ OUMXX KIUFT YADQO AYBXQ JWQKE

Hint:

The most frequently used character in English is "E". Determine the offset of the most frequently reoccurring character and of "E".

For example, the character "G" is the most frequently used character in a text. "G" is the 7th character of the alphabet, "E" is the 5th. The shift value of the Caesar cipher is $7-5=2$. The key is 2.