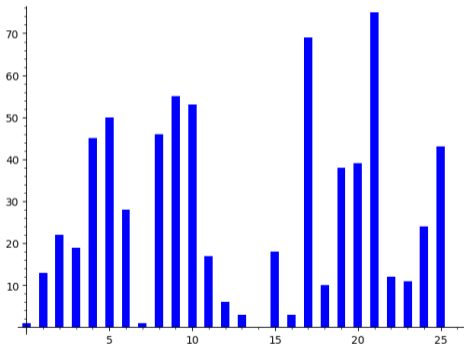
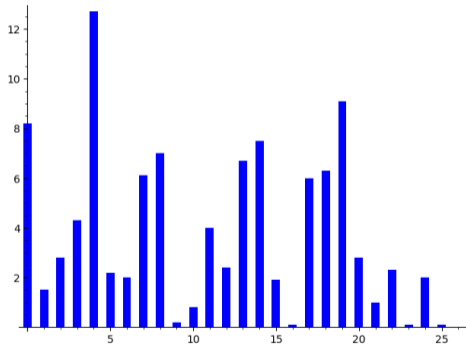


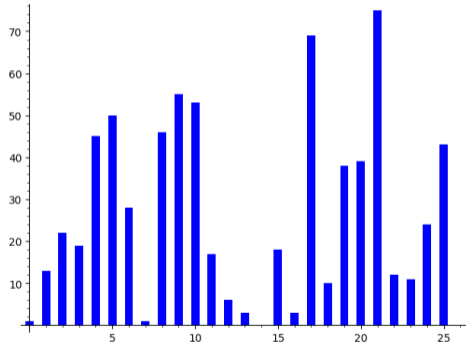
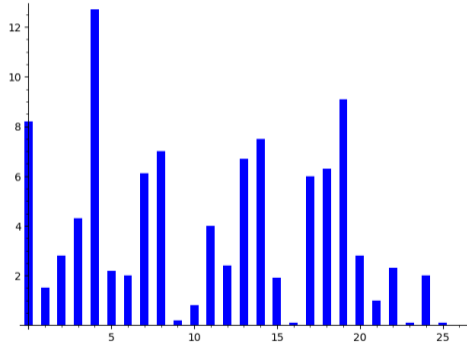
# Frequency Analysis (Caesar Cipher)

cihertext = "JFEPJIVTVEKVLIFGVRETUIVCVRJVJWIFDRIKZJKJLTYRJTVCEZEVUZFEJYRBZIRREUAVEEZWWICFGVQTFEKRZEJFEPURUT  
JTFGPGIFKVTKZFEDVKYFUDRIBVKVURJBVPRLUZFKYVJPJKVDEFIDRCCPGIVMVEKJLJVIJWIFDIZGGZEXTUKIRTBJKFDGWZC  
VJSPGCRTZEXRJDRCSSZKFWTFDGLKVIURKRFEKYVUZJTULIZEXKYVGIFTVJJFWDRBZEXKYVXCRJJDRJKVITUKYVEZEJKVRUF  
WIVTFXEZQZEXZEUMZULRCRLUZFKIRTBJRITFDGLKVIIVRUJKYVURKRKIRTBREUZXFIVJKYVRLUZFKIRTBJGIVMVEKZEXGT  
GCRPSRTBFWKYVDLJZTFECPJKREURCFEVUVMZTVJLTYRJYFDVKVIVFJREUGFIKRSCVTUGCRPVIJTREIVTFXEZQVREUGCRP  
KYVRLUZFKIRTBJFEKYVUZJTJSPFSJTLIZEXKYVURKRKIRTBZNZYRWVCKGVEDRIBFIRGZVTVFWFGRHLVRUYVJZMVGRGVIGIF  
KVTKVUUZJTJZBVUZFEJYRMVSVVEDRUVGCRPRSCVREUTFGPRSCVFEYFDVTFDGLKVIJSPIFEYRIIZJKYVRJJFTZRKVUGIVJJ  
WIZURPDRPKYZIKPWZIJKKNFKYFLJREUREUKNF"



# Frequency Analysis (Caesar Cipher)

ciphertext = "JFEPJIVTVEKVLIFGVRETUIVCVRJVJWIFDRIKZJKJLLTYRJTV CZEVUZFEJYRBZIRREUAVEEZWVICFGVQTFEKRZEJFEPURUT  
JTFPGIFKVTKZFEDVKYFUDRIBVKVURJBVPRLUZFKYVJPKVDEFIDRCCPGIVMVEKJLJVJWIFDIZGGZEXTUKIRTBKFDGWZC  
VJSPGCR TZEXRJDRCSSZKFWTFDGLKVIURKRFEKYVUZJTULIZEXKYVGIFTVJJFWDRBZEXKYVXCRJJDRJKVITUKYVEZEJKVRUF  
WIVTFXEZQZEXZEUMZULRCRLUZFKIRTBjRTFDGLKVIIVRUJKYVURKRKIRTBREUZXFIVJKYVRLUZFKIRTBjGIVMVEKZEXGT  
GCRPSRTBFWKYVDLJZTFECPJKREURCFEVUMZTVJLLTYRJYFDVJKVIVFJREUGFIKRSCVTUGCRPVIJTREIVTFXEZQVREUGCRP  
KYVRLUZFKIRTBjFEKYVUZJTJSPFSJTLIZEXKYVURKRKIRTBjBNZKYRWVCKGVEDRIBFIRGZVTVFWFGRHLVRUYVJZMVGRGVIGIF  
KVTKVUZJTJZBVUZFEJYRMVSVVEDRUVGCRPRSCVREUTFGPRSCVFEYFDVTFDGLKVIJSPIFEYRIIZJKYVRJJFTZRKVVUGIVJJ  
WIZURPDRPKYZIKPWZIJKKNFYFLJREUREUKNF"



key = 17

# Vigenère Cipher Example

plaintext | L I V E L O N G A N D P R O S P E R

# Vigenère Cipher Example

plaintext		L	I	V	E	L	O	N	G	A	N	D	P	R	O	S	P	E	R
plain as #:		11	8	21	4	11	14	13	6	0	13	3	15	17	14	18	15	4	17

## Vigenère Cipher Example

plaintext	L	I	V	E	L	O	N	G	A	N	D	P	R	O	S	P	E	R
plain as #:	11	8	21	4	11	14	13	6	0	13	3	15	17	14	18	15	4	17
key (CRYPTO):	2	17	15	19	14	2	17	15	19	14	2	17	15	19	14	2	17	15

## Vigenère Cipher Example

plaintext	L	I	V	E	L	O	N	G	A	N	D	P	R	O	S	P	E	R
plain as #:	11	8	21	4	11	14	13	6	0	13	3	15	17	14	18	15	4	17
key (CRYPTO):	2	17	15	19	14	2	17	15	19	14	2	17	15	19	14	2	17	15
cipher as #:	13	25	36	23	25	16	30	21	19	27	5	32	32	33	32	17	21	32

## Vigenère Cipher Example

plaintext	L	I	V	E	L	O	N	G	A	N	D	P	R	O	S	P	E	R
plain as #:	11	8	21	4	11	14	13	6	0	13	3	15	17	14	18	15	4	17
key (CRYPTO):	2	17	15	19	14	2	17	15	19	14	2	17	15	19	14	2	17	15
cipher as #:	13	25	36	23	25	16	30	21	19	27	5	32	32	33	32	17	21	32
cipher as #:	13	25	10	23	25	16	4	21	19	1	5	6	6	7	6	17	21	6

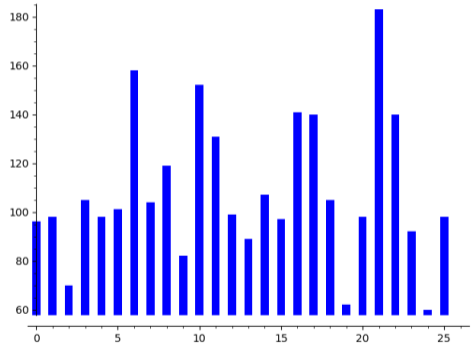
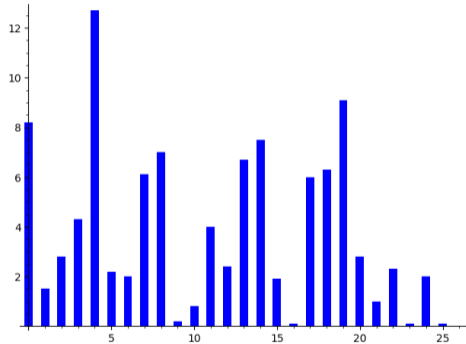
## Vigenère Cipher Example

plaintext	L	I	V	E	L	O	N	G	A	N	D	P	R	O	S	P	E	R
plain as #:	11	8	21	4	11	14	13	6	0	13	3	15	17	14	18	15	4	17
key (CRYPTO):	2	17	15	19	14	2	17	15	19	14	2	17	15	19	14	2	17	15
cipher as #:	13	25	36	23	25	16	30	21	19	27	5	32	32	33	32	17	21	32
cipher as #:	13	25	10	23	25	16	4	21	19	1	5	6	6	7	6	17	21	6
ciphertext:	N	Z	K	X	Z	Q	E	V	T	B	F	G	G	H	G	R	V	G



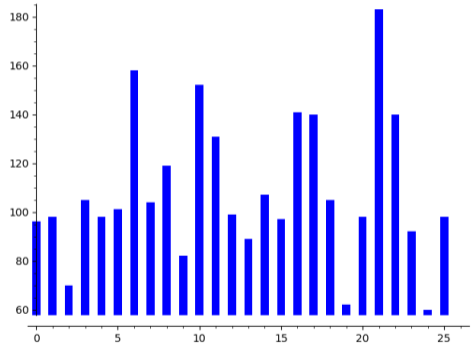
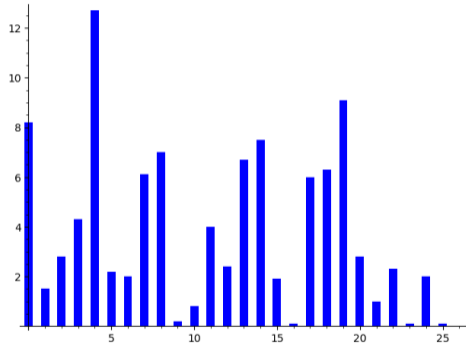
# Frequency Analysis on Vigenère

ciphertext = "PGHKXUWUAHKQVDBVCWIOVLVIZMEJLXCXHZQFPTSWGADVPKQRHKQNSTZQLVHKRGLRVIEIPGXTFWE  
XWRNDYXUFDUGCRBLKQPQPBFJMTYVZGUMGHTYAFQVDLNFSQLRCSVUDTNOHZQVMNPTVHDFVMEZWWWDGNDOM  
FZMCAJQXOTVJUQRKWZQIIVRIEKIIOSPLFDUGYRGZHIWDLBJLBAYJUAVBQWFFLRVGKRQEBAKXRPZUTSR  
YDZIOVLKWKVEAHLVRIODDKMCQVLKIUSRRNHZUKAZQIIVRIEGUUAWSGZHXCXHAWYMTCEJSQNSORFHAU  
YJRAWPGBSSLK MOPSELKMKBNQVEGBIYGQODOJBHBJOHNQVWHZLBLROTKTUKPGHSVFLIIPMMRKUMIKVQA..."



# Frequency Analysis on Vigenère

ciphertext = "PGHKXUWUAHKQVDBVCWIOVLVIZMEJLXCXHZQFPTSWGADVPKQRHKQNSTZQLVHKRGLRVIEIPGXTFWE  
XWRNDYXUFDUGCRBLKQPQPBFJMTYVZGUMGHTYAFQVDLNFQRCVSUDTNOHZQVMNPTVHDFMEZWWWDGNDOM  
FZMCAJQXOTVJUQRKWZQIIVRIEKIIOSPLFDUGYRGZHIWDLBJLBAYJUAVBQWFFLRVGKRQEBAKXRPZUTSR  
YDZIOVLOK WOKVEAHLVRIODDKMCQVLKIUSRRNHZUKAZQIIVRIEGUUAWSGZHXCXHAWYMTCEJSQNSORFHAU  
YJRAWPGBSSLK MOPSELKMK BHNQVEGBIYGQODOJBHBJOHNQVWHZLBLROTKTUKPGHSVFLIIPMMRKUMIKVQA..."



key = ?