Example 1 - UAI 655

Exam – oral part – summer 2017

Name of student	
Date	

Affine cipher

The principle is

Plaintext	a	f	f	i	n	e		c	i	p	h	e	r
x	0	5	5	8	13	4		2	8	15	7	4	17
5x+8	8	33	33	48	73	28		18	48	83	43	28	93
(5x+8) mod 26	8	7	7	22	21	2		18	22	5	17	2	15
Ciphertext	I	H	H	W	V	C		S	W	F	R	C	P

Ciphertext	I	H	H	W	V	C		S	W	F	R	C	P
y	8	7	7	22	21	2		18	22	5	17	2	15
21(y - 8)	0	-21	-21	294	273	-126		210	294	-63	189	-126	147
21(y - 8) mod 26	0	5	5	8	13	4		2	8	15	7	4	17
Plaintext	a	f	f	i	n	e		c	i	p	h	e	r

The text is

en_text = 'FCAFLC ORA LWJC WV MLIUU RAEUCU URAELX VAZ ZRPAO UZAVCU. CVMLWUR FPAJCPN.'

Write a simple program in Python3 which decrypts the en_text and prints on the screen.

The program:

The decrypted text: