Here is how to encrypt with numbers.

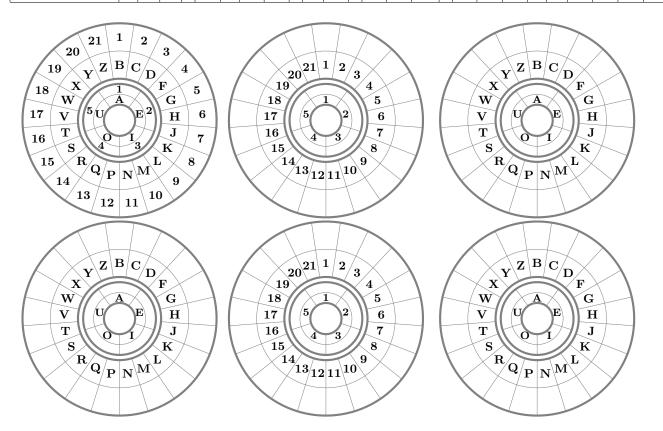
Encrypt subtract if too big using the shift cipher with key 12.

plaintext	S	u	b	t	r	a	С	t	i	f	t	О	О	b	i	g
as numbers	15	5	1	16	14	1	2	16	3	4	16	4	4	1	3	5
add 12	27	17	13	28	26	13	14	28	15	16	28	16	16	13	15	17
sub 21 if cons too big	6		13	7	5		14	7		16	7			13		17
now to letters	Н		Q	J	G		R	J		Т	J			Q		V
sub 5 if vowel too big		12				8			10			11	11		10	
and again		7				3			5			6	6		5	
and again		2				3			5			1	1		5	
now to letters		Е				I			U			Α	Α		U	
all together!	Н	Е	Q	J	G	Ι	R	J	U	Т	J	A	A	Q	U	V

So the encrypted message is **HEQJGIRJ UT JAA QUV**.

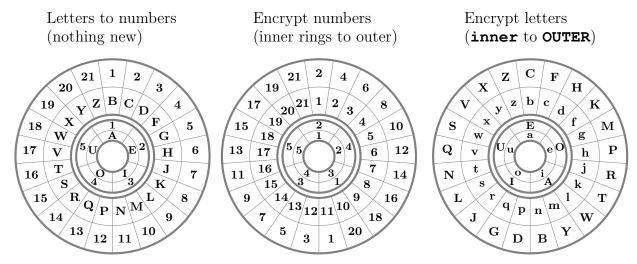
Decrypt "ISS QIRY JA TUM COVIJUKOH" using the shift cipher with key 12.

CIPHERTEXT	I	S	S	Q	Ι	R	Y	J	Α	Т	U	M	С	О	V	Ι	J	U	K	О	Н
as numbers																					
subtract 12																					
fix numbers																					
to letters																					



Oh no! Your parents have figured out the shift ciphers and are back to reading all your messages. It's time to get **SERIOUS**.

Look at the following code.



How does it work? (Be ready to explain it to the class.)

Encrypt this message "this is twice as secret!"

plaintext	t	h	i	s	i	\mathbf{S}	t	W	i	c	е	a	\mathbf{S}	S	е	c	r	е	t	!
as numbers																				
encrypt																				
fix numbers																				
to letters																				

Answer:

How do you decrypt?