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Operating with Bits, the PreProcessor and Enumerated Types

Write a C program that implements a magic decoder ring using bit operations and encryption.

TASK REQUIREMENTS:

Build a program that can encrypt and decrypt text using bit masks and XOR operations

• Implement a substitution cipher with the following table:

Implement a substitution cipner with the following table:										
Start	А	В	С	D	Е	F	G	Н	I	J
Sub	М	N	0	Р	Q	R	S	Т	U	V
Start	K	L	М	N	0	Р	Q	R	S	Т
Sub	W	X	Υ	Z	А	В	С	D	E	F
Start	U	٧	W	Х	Υ	Z	!	@	#	\$
Sub	G	Н	I	J	K	L	II .	@	\$	%
Start	%	&	()	:	;	?		/	
Sub	&	1)	*	:	;	?	/	!	
Start	0	1	2	3	4	5	6	7	8	9
Sub	6	7	8	9	0	1	2	3	4	5

Convert all input to uppercase before processing

- Use enumerated types for encrypt/decrypt modes
- Implement with proper file organization (separate .h and .c files)

SAMPLE OUTPUTS

NOTE: Your cipher shift is randomized -	your output will differ from these examples
Encrypting a message:	

Decry	ptina	a m	essa	ae:
D C C C C C C C C C C	P 11119	u	.0000	go.

Bad input example:

Submission Instructions

Submit via video recording demonstrating your working program as outlined in Brightspace.