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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:

Impleme	nt a sabs	ditation o	prior with	i ti le lolic	wing tab	10.				
Start	Α	В	С	D	Е	F	G	Н	I	J
Sub	Е	F	G	Н		J	K	L	М	N
Start	K	L	М	N	0	Р	Q	R	S	Т
Sub	0	Р	Q	R	S	Т	U	٧	W	X
Start	U	٧	W	X	Υ	Z	!	@	#	\$
Sub	Υ	Z	Α	В	С	D	%	II	1	(
Start	%	&	()	:	•	?	•	/	
Sub)	*	,	-	^	?	<	#	\$	
Start	0	1	2	3	4	5	6	7	8	9
Sub	4	5	6	7	8	9	0	1	2	3

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 example	:S
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.