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1) **[21 points]** Solve this Caesar Cipher with a shift of 3

Z	H	U	L	V	H	E	B	O	L	I	W	L	Q	J	R	W	K	H	U	V	.
W	E	R	I	S	E	B	Y	L	I	F	T	I	N	G	O	T	H	E	R	S	.

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2) **[35 points]** Solve this Atbash Cipher.

G	S	V	V	C	K	V	I	G	R	M	Z	M	B	G	S	R	M	T	D	Z	H
T	H	E	E	X	P	E	R	T	I	N	A	N	Y	T	H	I	N	G	W	A	S
L	M	X	V	Z	Y	V	T	R	M	M	V	I	.								
O	N	C	E	A	B	E	G	I	N	N	E	R	.								

3) [143 points] Solve this Aristocrat Cipher which is a Walt Disney quote and ends in the word THEM.

XQQ HTN YNOXCD SXM SHCO ANTO, BU  
ALL OUR DREAMS CAN COME TRUE, IF

IO WXLO AWO SHTNXFO AH JTNDTO  
WE HAVE THE COURAGE TO PURSUE

AWOC.  
THEM.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
<b>Frequency</b>	4	1	3	2		1		4	1	1		1	1	5	9		2		3	5	1		3	5	1	
<b>Replacement</b>	T	I	M	S	Z	G	B	O	W	P	J	V	N	R	E	Q	L	K	C	U	F	Y	H	A	D	X

4) [33 points] Decrypt this Vigenère Cipher using the keyword of HOPE

H O P E H O P E H O P E H O P E H O

K	O	G	I	A	C	Q	I	Y	S	B	E	Y	Y	P	F	S	S
D	A	R	E	T	O	B	E	R	E	M	A	R	K	A	B	L	E



7) [173 points] Solve this Aristocrat which is a quote from Dr. Suess. The word YOU appears in it three times.

WZL ORG CMGB DRAMO EVFIFHFI WZL  
 YOU CAN FIND MAGIC WHEREVER YOU

PZZY. KMQ UROY RGB IFPRJ RPP WZL  
 LOOK. SIT BACK AND RELAX ALL YOU

GFFB MK R UZZY.  
 NEED IS A BOOK.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
<b>Frequency</b>	1	3	1	1	1	6	4	1	3	1	2	3	4		3	4	1	7			2	1	3		3	7
<b>Replacement</b>	G	D	F	M	W	E	N	V	R	X	S	U	I	Z	C	L	T	A	P	Q	B	H	Y	J	K	O

8) [47 points] Solve this Caesar with a shift between -5 and 5.

A	L	Q	E	B	O	F	D	E	Q	Q	E	F	K	D	B	S	B	K	T	E	B	K
D	O	T	H	E	R	I	G	H	T	T	H	I	N	G	E	V	E	N	W	H	E	N
K	L	L	K	B	F	P	I	L	L	H	F	K	D									
N	O	O	N	E	I	S	L	O	O	K	I	N	G									



11) [48 points] Solve this Vigenère Cipher. Use the Keyword TEST

T E S T T    E S T T E    S T T E S    T T E S T    T E S T T

P	L	Q	Y	B	X	A	G	P	L	W	G	R	S	M	P	X	V	W	U	H	V	F	M	H
W	H	Y	F	I	T	I	N	W	H	E	N	Y	O	U	W	E	R	E	B	O	R	N	T	O

E S T T E    S T T

W	L	T	G	H	G	N	M
S	T	A	N	D	O	U	T

12) [277 points] Solve this Aristocrat, which is a quote from J.K. Rowling

**KF KC QVS EDQKEPC FDBF CDQZ ZDBF  
IT IS OUR CHOICES THAT SHOW WHAT**

**ZP FSVGN BSP, ABS HQSP FDBL QVS  
WE TRULY ARE, FAR MORE THAN OUR**

**BTKGKFKPC.  
ABILITIES.**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
<b>Frequency</b>	1	6	4	5	2	7	2	1			6	1		1		5	5		6	1		3				3
<b>Replacement</b>	F	A	S	H	C	T	L	M	X	Z	I	N	K	Y	V	E	O	J	R	B	Q	U	G	D	P	W