Codebusters C - Codebusters - Rickards Invitational Div. C - 12-05-2020

Hello there! Welcome to the Rickards Invitational. You have 50 minutes to complete the following test, good luck! Keep in mind for this test, you are not allowed to leave the tab or use a notes. If your team leaves the tab for more than a collective 30 seconds, you will be **tiered**. Please get in any calls before the test starts. You are allowed to use the Codebusters Reference Sheet provided below, but it must be printed out before the test starts. A copy of the reference will also be on the test itself.

Codebusters Reference Sheet: https://scilympiad.com/Data/shared/testRefs/CodebustersReference.pdf (https://scilympiad.com/Data/shared/testRefs/CodebustersReference.pdf) (https://scilympiad.com/Data/shared/testRefs/CodebustersReference.pdf)

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DO NOT LEAVE THE TAB UNDER ANY CIRCUMSTANCE OR YOU FACE THE RISK OF BEING TIERED.

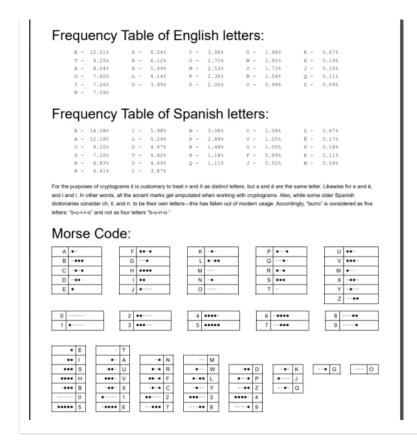
The following tables might be useful during Codebusters.

	λ	В	С	D	E	F	G	н	I	J	ĸ	L	M	N	0	₽	Q	R	s	T	U	v	W	x	¥	1
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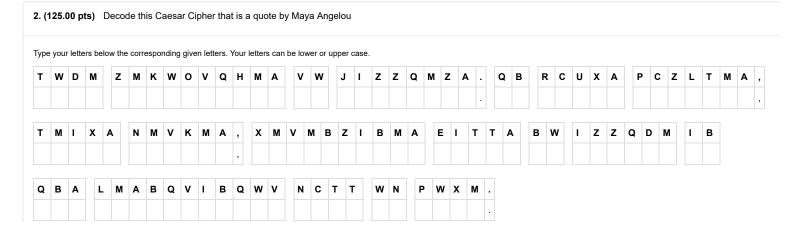
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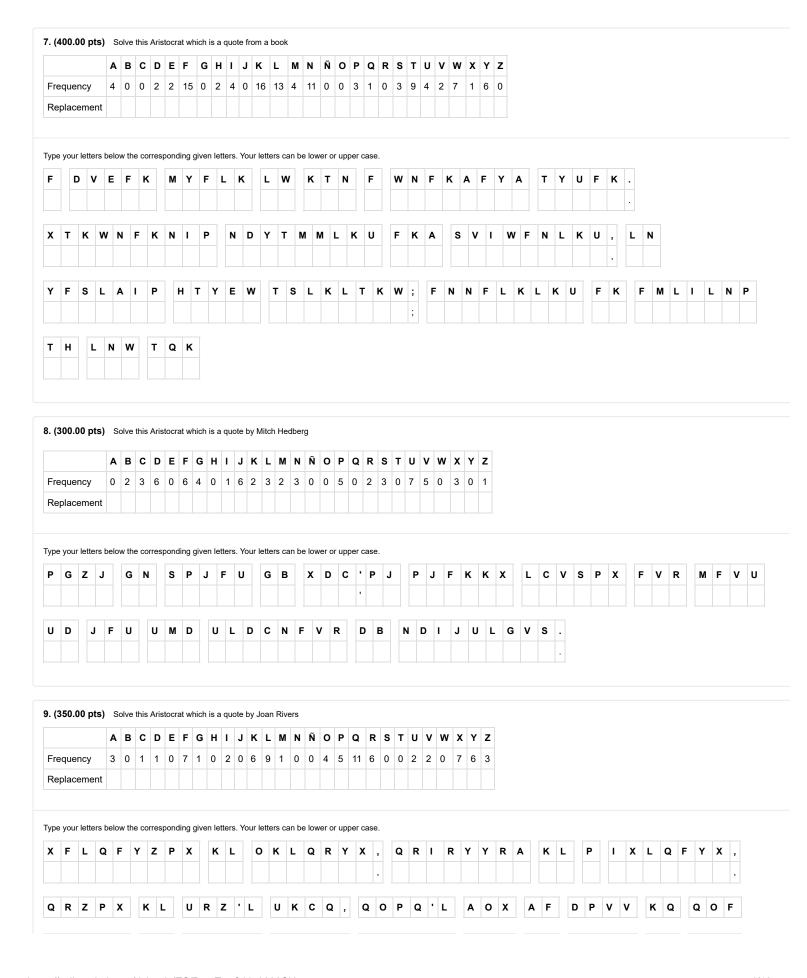
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AAABB	D	ABAAB	K	ABBBB	Q	BABAB	Х
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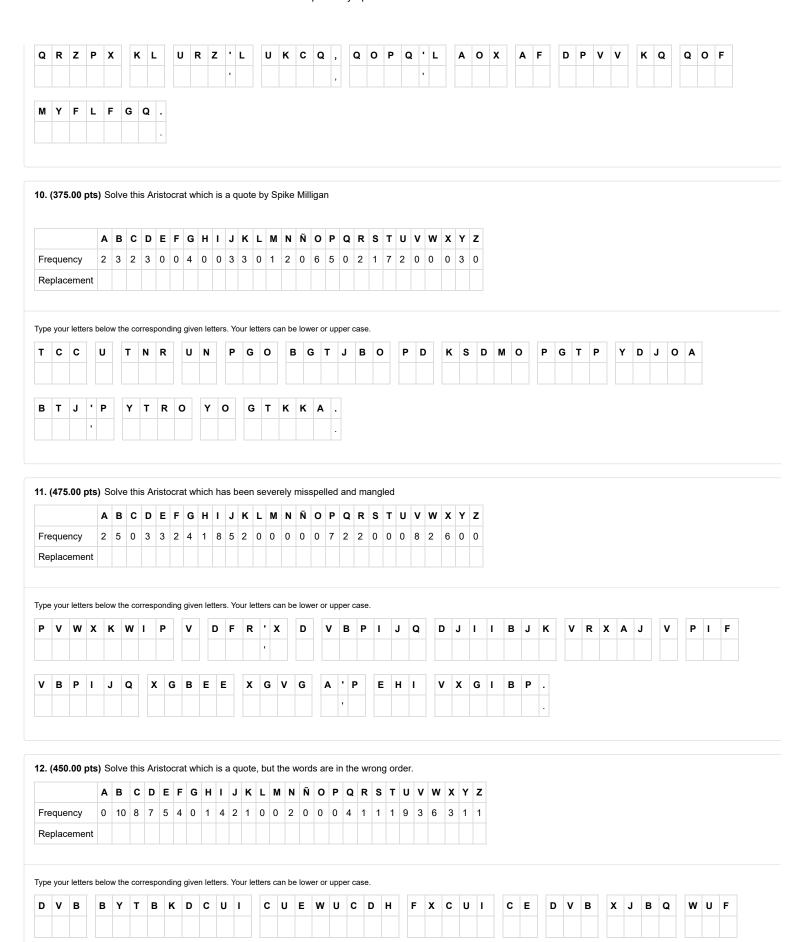


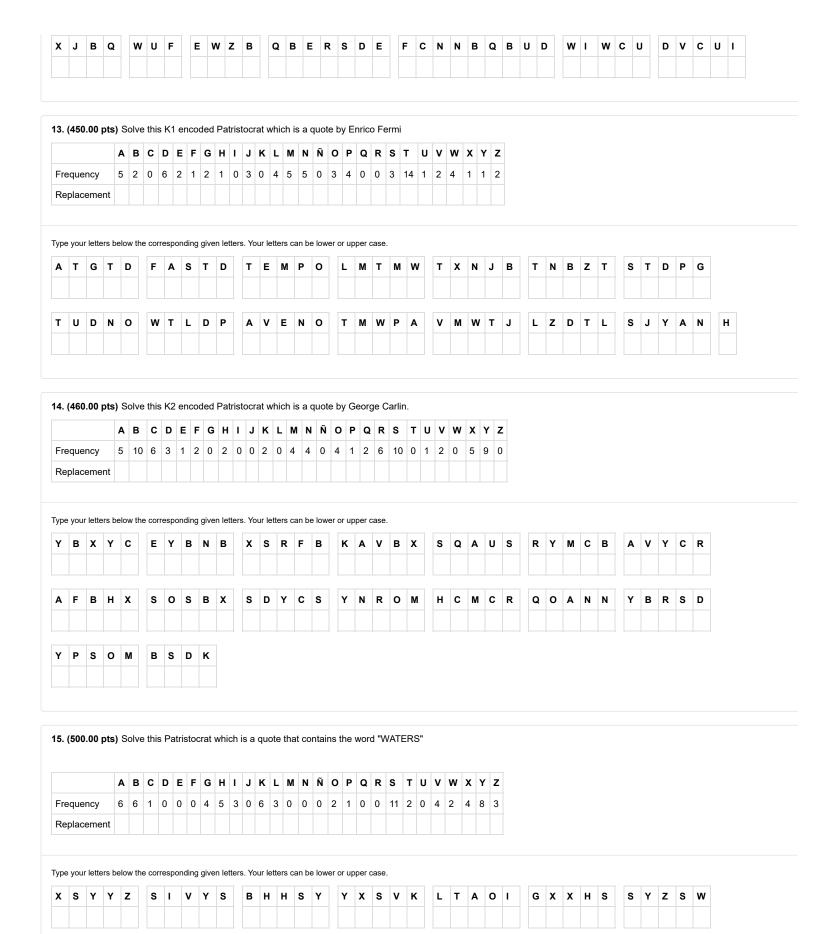




(2:	25.0)0 p	ts)	The	foll	owin	g te	xt ne	eds	s to	be e	enco	oded	l with	h th	e Af	fine	Cip	her ı	usin	g a=:	25 aı	nd b=	25.																	
/pe	your	lette	ers be	elow t	the c	orres	ponc	ling g	iven	lette	ers. \	Your	lette	rs ca	n be	lowe	er or	uppe	er cas	se.																					
Н	М	M	М	1	Г	1 1	:	S	S	U	S	S I	PI	<u> </u>	С	I	0	U	s	L	Y	L	0	0	K	s	!	S	ı	М	ı	L	Α	R		Т	0	A			
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Type	your O	lette	U U	A Solv	W W	Q Q	ponc	G G	Y Y	s a q	S S quote	C C	Y	rs cal	n be	w W	er or	uppe S	er cas	A S	E	G	K / W					M	M	E	Q										
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Free Rep	O O O O O O O O O O O O O O O O O O O	000 p	U U	A Solv	we this	Q Q S Aris	pond,	G G G G G G G G G G G G G G G G G G G	Y ich is G I	saq HII	S S quote	C C E by I K	Michel L	rs cal	Dbar N 6	w w ma	C C O 7	S P 2	Q F	A S S 4	E	G	/ W	x	Y 2	z		M	M	E	Q										
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19) [300 points] Solve this Baconian that start with "WHENY"

*6025t63w*250t623w5t*60325w*t0362w*05t6325wt625*t6025

t36w*2053tw*6205t362w5t6*032w5t62*05t623w5*t6025t3w*6

25t60253t6w25t*6250t3w625*0t3w62*50t625t3625t6w*25t03

w*6205t3w625*0t3w62*5t60235t625tw625*t625t03625w*t036

2w5t*6250t63w*25t0362w5*t0362w*503t6w*2503wt625t*6203

5tw62*5t0623w5*0t6235w*0t6235t625t62w5t*0623w5*03tw6*

0253wt*0623w5t*03625t6w25*0t6325wt6*2503tw*6250t625t3

6w*205t632w*50t36w*250t6325wt62*035wt625*0t6253wt*603

25w*t0362w*5t03w625t6*2503t6w25*t60253wt*62503tw*6032

20. (300.00 pts)

20) [300 points] Solve this Baconian Cipher which is a quote that starts with "DON"

ABBOT A LORD A HOME CABLE CAIRO A FOUR CABLE CABLE

A CASE A FOUR A BOAT A LORD CABIN CALEB A BOOK A BABY

CABLE A CASE A DEAR A BOAT A FOUR A BODY A DEAR CAMPS

A FOUR CAIRO CALL A A LORD CAMPS A CALL A BABY A DEAL

A FOUR A CASE A DEAR A BOAT A FOUR A BEAT A FOUR

CABLE CABLE A FOUR CABIN A BABY A HOME ABBOT A BEAT

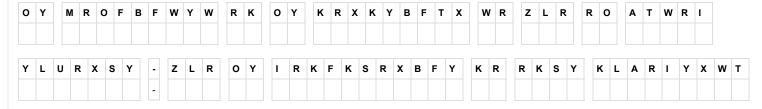
CAMPS A DEAR A CASE ABBOT CAIRO A LORD A CALL A FOUR

CABLE A BOOK A DEAR A HOME A BODY

21. (600.00 pts) Solve this Xenocrypt which is a quote by Les Brown translated into Spanish. Type your letters below the corresponding given letters. Your letters can be lower or upper case. Х С U s Ε J С С Ε Q С Ε С С Q С s N V

22. (575.00 pts) Solve this Xenocrypt which is a quote by Nietzsche translated into Spanish

Type your letters below the corresponding given letters. Your letters can be lower or upper case.



23. (300.00 pts) Decode this Hill cipher with keyword HILL. This question will also help you solve another question.

$$\begin{pmatrix} H & I \\ L & L \end{pmatrix} \equiv \begin{pmatrix} 7 & 8 \\ 11 & 11 \end{pmatrix}$$

Type your letters below the corresponding given letters. Your letters can be lower or upper case.

Н	Α	Е	Y	М	w	R	В	L	G	D	R	т	F	В	U	J	J	J	ı	s	Α	F	٧	Α	Р

24. (300.00 pts) Encode this text using a hill cipher. The keyword can be found in the answer of a different question

Type your letters below the corresponding given letters. Your letters can be lower or upper case.

Т	н	E	o	N	L	Y	J	0	Y	ı	s	Т	0	В	E	G	ı	N

25. (450.00 pts) Special Agent, Jonathan, has the following RSA public key:

n = 503021 e = 69031

				Un	fortı	unat	ely	for	r the	em	, A	qua	antı	um	COI	mpu	ter	has	su	ICC	esst	ully	/ fac	tore	ed th	neir	r n																									
						1 =																																														
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					883	39175	514	829	755	361	1858	313	942	395	663	2576	511	454	415	434	4949	588	3																													
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29. (400.00 pts)	29) [400 points] A quote has been encoded using the Morbit Cipher for you to decode. You are told that 5=, 9=••, 2=∗•, 7=-•, 8=∗-, 3=•-
	7 5 8 5 2 3 1 7 7 2 6 7 1 6 2 5 4 9 6 6 2 6 2 7 4
	9 8 6 9 8 1 5 6 7 1 3 8 4 7 5 8 2 9 4 9 8 4 5 4 8
	2 9 4 4 8 6 5 6 3 4 4 8 3 6 5 6 9 6 8 9 2 7 2 2 6
	5 1 6 9 9 2 1 9 7 2 6 3 4 6 9 9 2 2 7 1 7 5 8 5 2 3
	1 5 4 4 6
30. (425.00 pts)	
() ()	30) [425 points] A quote has been encoded using the Pollux Cipher for you to decode. You are told that the quote starts with INSI. 774871222477602342140069618127976713831266327667011563732
	423182442582136352173718584076197248430312986589100969833
	62260960876156500645094268648056235684607791228656679
	118283490189117286723677847817897128236898814722621527
	175454216773217948811258677154232911938715581228120964880
	43524697094734293517640287693042009102034951578494232

Congratulations on finishing! Don't forget to check your answers. Once you do, feel free to submit. Good luck on your other events! If you have any questions feel free to contact me

at farzanshiju1@gmail.com or on Discord at fds#7731.

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