

ACA Cipher Contest – Harrisburg, PA –Sept 10, 2022 – Computer Solvers

Instructions:

- You have two hours in which to complete the contest. This contest runs from 3:45pm – 5:45pm Eastern. (12:45pm – 2:45pm Pacific, 7:45pm – 9:45pm UTC)
- Scoring for each CON is indicated in the table below.
 - Partial credit may be given at the discretion of the scorers.
- This contest contains a variety of CONs. No one is expected to solve all CONs during the contest.
- **Before end of contest, please email your solutions to:**
 - Contest2022@cryptogram.org
- A Solutions Submission form is available for download from the page you downloaded the contest. It is a simple text file to help organize your solutions for submission.
- It is advised that you use an editor to keep track of your solutions during the contest.
- Scoring ties will be broken by solution submission times. If you make multiple submissions, your submission time will be the time of the last submission.
- No solutions will be accepted after the end of the contest.
- Good solving! Enjoy, and have fun!

Scoring:

FPT: Points for completing the Full Plain Text

Key: Points for submitting the Key

Rules: Points for submitting the two Rules (Double Null cipher only)

Con	Max.Total	Breakdown	
CC-1 Aristocrat	7	FPT: 5	Key: 2
CC-2 Aristocrat	7	FPT: 5	Key: 2
CC-3 Patristocrat	9	FPT: 6	Key: 3
CC-4 French Aristocrat	9	FPT: 6	Key: 3
CC-5 Cryptarithm	5	Key: 5	
CC-6 Sudoku	6	Key: 6	
CC-7 Morbit	8	FPT: 6	Key: 2
CC-8 Double Null	8	Rules: 2+2	FPT: 4
CC-9 Checkerboard	8	FPT: 6	(Sq) Key: 2
CC-10 Foursquare	13	FPT: 7	Keys: 3+3
CC-11 Ragbaby	10	FPT: 7	Key: 3
CC-12 Playfair	11	FPT: 8	Key: 3

Grand Total: 100 points

CC-1. Aristocrat. Happy days are here again! K2.

CONFUOCO

ALWJMXL HGJV! AL'EL DM QGIIC YM DLL CMO GPGRZ!

ZMA AL JGZ JGYJQ OI, QGUL G PMMK WGOPQ, GZK KM

DMXL PELGY DMWURZP YMPYQLE.

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

Key: _____

CC-2. Aristocrat. Vocabulary lesson. K1.

BECASSE

IDIBGLJI ERQ YRCUVOJU RN PI GIQNIBKRG MLB JLN XJLEOJU

EVRN RZLTRYGZQI PIRJQ. SCN O UCIQQ ON'Q JLN NVI IJK

LM NVI ELBYK.

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

Key: _____

CC-3. Patristocrat. Lockdown savings. K2 [116/20] (-dy looking)

CONFUOCO

CTGSG SORVT LODPQ JNNDS TQSGS ONOMJ FNJVO COJXV OJMFY

DDWTZ QKJLW ZDNGJ XQTLJ XXFGD GCDFO JVNJQ DCSOZ DAVLJ

VNQDG GSVOO COOWN GDGSO QJXXD Z.

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

Key: _____

CC-4. French Xenocrypt. Now humans, too. K2 (quelques jours)

BECASSE

Z'VWMRNALBWTA OVRK ZRC LAWPLDH QDNR QR EDRZEDRC XTDNC L

QRC CRPLWARC FTWNR QRC PTWC. ZRC PLNPTBBRC VWMRNARAB

XDCED'L ORAB OWAEDLABR XTDNC.

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

Key: _____

CC-5. Cryptarithm. Tasty Addition. (three words, 9-0)

BECASSE

$$\begin{array}{r}
 \text{H E R S H E Y S} \\
 + \text{C H O C O L A T E S} \\
 \hline
 \text{Y T O O T O T H C O}
 \end{array}$$

Key: 9 8 7 6 5 4 3 2 1 0

CC-6. Sudoku. (two words, 3rd column)

BECASSE

			G		A			N
L	Y	A		D				G
			I	F	Y			L
		I	D		N		L	
R	D						F	A
	L		A		F	N		
I			Y	G	L			
G				N		R	Y	I
D			R		I			

Key: _____

44921 61649 47464 21686 78765 59354 78924 62656 72821

66986 19571 94315 99534 68191 92166 72495 66794 61769

25712 78794 66167 16477 12965 31726 16471 61.

Key: _____

. . . - - - x x x
. - x . - x . - x

Solution: _____

E: .

T: -

I: ..

A: .-

N: -.

M: --

S: ...

U: ..-

R: .-.

W: .--

D: -..

K: -.-

G: --.

O: ---

H:

V: ...-

F: ..-.

L: .-..

P: .--.

J: .---

B: -...

X: -...-

C: -.-.

Y: -.-

Z: --..

Q: ---.

CC-8. Double Null. Socially distanced fun. (firms, city)

BECASSE

MUSKRAT INEPT EXCEPT UPHILL AFTER GREEDY STRESSED

INATION. ASPHALT SUBDIVISION UPSETS BROWN ZIGZAG.

FLEECEED VICAR'S PARISH MISUSED ISLAND PROFITS. FLOCK

OFTTIMES EXECUTES RECYCLED STUNTS. ETHANOL ENGULFS

IMPORTER, OVERUSES DIOXIDS.

Rules: _____, _____

Solution: _____

CC-9. Checkerboard. Comprehension. (one at home and)

CONFUOCO

OE OO EE HO HL OL UO SL HL OE HV OL OE SE EO OL HL SE

EE HO HL OL OO SE UO HO UL OL OO HL OE SE UO OL OE HO

OH EO OO SV UE HO HO UV HE HL OH OO SE UL OL UE HE UV

OL SV OL OL SE UO HE SV HE SV EO UO EE HE OV UO OL EO

SE UO OL UH SL HV HL HE SE SL HV OL.

--	--	--	--	--

Keys: Row label: _____, Col label: _____

Key in Square: _____

RD TZ IT LR FM AG RD IT EE LC VI SD KL HG LK RO MM OT

EM SA ID RM HG LK RA KL QT HR RA GY DA OL CQ IU AZ DL

RU LV FM LR CL UP TP HG SD NM AM KK IY ME UE NR HP OI

SL ME AK AI QW DK NR ST FM OL CQ NT RY.

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

Keys: Left Square: _____

Right Square: _____

CC-11. Playfair. Only in Canada? (that the get-together)

CONFUOCO

KT HA KH UE PC SC DC KC RN CW PG HK HL IV RL PL GA

OK OH HO OB OQ BF RM FP SF OK YS MP BE PF CP EB MP

OB RV ZG FD OF HC PF PH RN GO LD UO CA CP MY OK YS.

Key: _____

CC-12. Ragbaby. Positional vocabulary. (between-2)

BECASSE

BYEQSHK MD PNHW *GYAOU RH KKCEQRL *ILP BPT *AHIL. BZHB

AR PB NKTUAC HCZD *VHD YZ PPKRLYM *PTKNF THS *GZAM?

VZPCPSBYGI.

- - - - -
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

Key: _____