

MysteryTwister C3

THE CRYPTO CHALLENGE CONTEST

DOUBLE COLUMNAR TRANSPOSITION – RELOADED (PART 2)

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Introduction

After the level X challenge "Double Columnar Transposition" was solved for the first time (using some remarkable new ideas), we decided to create a series of new double columnar transposition challenges. In these new level III challenges we considered the newly discovered vulnerabilities and created three new ones with increasing difficulty.

Challenge

NWTDSSHAUIASOOTLDEDNLTHOBENHETCWTHERTPSNTMCTIAYEINNIUI
YOPLEIRGHMNUTARFONYMLDSERSAELANNLOSAWALTODOCAHUOTOPARE
AEEESPDEYATUENINNCNBDPCOFORETSYHAHANTEDERPERCRSGEANNIH
YTTEDNGICOIOLABSRONNWLNTALWLVRIBHKTETECNPSFHACMIGTYODE
ONMTOIVUAI AEESKKLAROMBAYKOSRNEETHSIMSEOUAWLYAWHSWWSSW
LCIYCEONUPNEESURSBETDALHDAHLIOAAETONNDOELTHHNHDCOTUII
TEAYTERRHOENKEUCTIRANECYQNACTMBWAPDIAEXEUTIATAJLITEALF
ISIEATATAEOTNEESMEUDDADOROEGORPELGPVMETHHSDDRMSNDERMSL
EOANENHTCHPHSSEASSEDBHVESNUGONIOLELSUCASELSTEIESYATREE
ELADIEYOEOKAREEELETCOSDHCSAETSTSFRTSELEITDNHBRINSERHRT
LNAXYONAMECAIESATAEERIAOTCEENETFARMRTSREAPAYNIRTNITSRA
THIWRIPRTDIIRECSWADSOATUTENMVVOAISISONGGWTH

The solution consists of the first 37 characters of the original English plaintext in capital letters without any spaces.

Hints

- ▶ The key length for both keys is 20 - 27 characters.
- ▶ The key lengths are co-prime (as with the original level X challenge).
- ▶ Both keys are chosen randomly.
- ▶ The plaintext consists of two English texts interleaved word by word.
- ▶ You can download an additional file that contains only the ciphertext.
- ▶ As an exercise, consider the following level I challenge: [1].
- ▶ The original level X challenge can be found under [2].

[1] <https://www.mysterytwisterc3.org/en/challenges/level-i/double-columnar-transposition>

[2] <https://www.mysterytwisterc3.org/en/challenges/level-x/double-column-transposition>