

On the Subject of The Affine Cycle

Ah shift, here we go again.

This module consists of a screen, eight dials with yellow labels, and a QWERTY keyboard.

The labels on the dials, when decrypted and read from left to right, spell out an eight letter word.

The number N , for each dial, is the number of 45° clockwise rotations from north to the direction the dial is pointing.

(This number is between 0 and 7.)

The alphabetic position of each letter is multiplied by $2N+1$.

The resulting product has 26 subtracted from it until it falls within the range [1,26].

The final number is the alphabetic position of the encrypted letter.

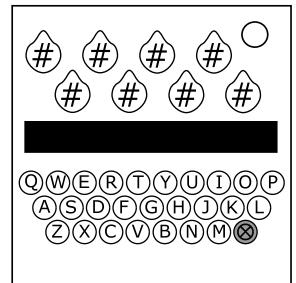
Once deciphered, find the word in the table below, the word written below it is the word that should be entered.

Apply the same encryption to the response word, and type out the encrypted response word using the keys.

The word is automatically submitted when eight keys are pressed.

The red button can be pressed at any time before the eighth key is pressed to cancel the input.

Inputting any of the eight letters incorrectly will cause a strike to be issued and reset the module.



Keyword Table

ADVANCED	ADDITION	ALLOCATE	ALLOTTED	BINARIES	BILLIONS	BULKHEAD	BULWARKS
UNDERRUN	HAZARDED	ENTRANCE	ULTIMATE	WINGDING	YEASAYER	YIELDERS	JIGSAWED
CIPHERED	CIRCUITS	COMPUTER	COMPILER	DECRYPTS	DIVISION	DISCOVER	DISCRETE
JUNCTURE	JUNCTION	LINEARLY	VICINITY	OCTANGLE	JIMMYING	TRIGGERS	ILLUDING
ENCIPHER	ENTRANCE	EQUATION	EQUALISE	FINISHED	FINDINGS	FORTRESS	FORTUNES
BULKHEAD	BULWARKS	TRIANGLE	FORTUNES	HUNGRIER	ROTATION	POSITION	WINNABLE
GAUNTLET	GAMBLING	GATHERED	GATEWAYS	HAZARDED	HAZINESS	HUNKERED	HUNGRIER
REVERSED	ULTRAHOT	QUADRICS	OCTUPLES	ZIPPERED	RELATIVE	KILOWATT	BILLIONS
INDICATE	INDIGOES	ILLUSION	ILLUDING	JIGSAWED	JIMMYING	JUNCTION	JUNCTURE
STOPPING	PROJECTS	QUITTERS	FORTRESS	NUMERATE	VOLUMING	DISCRETE	ZUGZWANG
KILOWATT	KINETICS	KNOCKOUT	KNOWABLE	LIMITING	LINEARLY	LINKAGES	LINGERED
STOCCATA	FINISHED	MULTIPLY	ENCIPHER	MONOTONE	COMPILER	QUICKEST	MULCTING
MONOGRAM	MONOTONE	MULTIPLY	MULCTING	NANOGRAM	NANOTUBE	NUMBERED	NUMERATE
LIMITING	NUMBERED	ADDITION	YOURSELF	DISCOVER	DECRYPTS	ZIGZAGGY	STARTING
OCTANGLE	OCTUPLES	OBSERVED	OBSTACLE	PROGRESS	PROJECTS	POSITION	POSITRON
KINETICS	KNOCKOUT	PROGRESS	NANOGRAM	GAMBLING	QUADRANT	REVOLVED	DIVISION
QUADRANT	QUADRICS	QUICKEST	QUITTERS	REVERSED	REVOLVED	ROTATION	RELATIVE
NANOTUBE	TOMOGRAM	VOLTAGES	CIPHERED	HAZINESS	HUNKERED	MONOGRAM	FINDINGS
STARTING	STANDARD	STOPPING	STOCCATA	TRIGGERS	TRIANGLE	TOMOGRAM	TOMORROW
STANDARD	UNDERLIE	OBSERVED	GAUNTLET	ALLOCATE	OBSTACLE	POSITRON	ADVANCED
UNDERRUN	UNDERLIE	ULTIMATE	ULTRAHOT	VICINITY	VICELESS	VOLTAGES	VOLUMING
EQUALISE	VICELESS	GATEWAYS	LINKAGES	INDICATE	KNOWABLE	ILLUSION	LINGERED
WINGDING	WINNABLE	WHATEVER	WHATSITS	YELLOWED	YEASAYER	YIELDERS	YOURSELF
GATHERED	EQUATION	ZYMOGENE	BINARIES	INDIGOES	ALLOTTED	WHATSITS	TOMORROW
		ZIPPERED	ZIGZAGGY	ZUGZWANG	ZYMOGENE		
		WHATEVER	YELLOWED	COMPUTER	CIRCUITS		