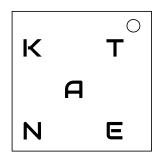
On the Subject of XmORse Code

This would be easier to solve if these flashes made actual letters.

On the module you will see 5 letters that will repeatedly flash. Your goal is to figure out what order you should press the letters. Pressing the letters in the wrong order will cause a strike and generate a new set of letters and flashes.



Step 1: Getting the first string

- Each letter will have a different sequence of flashes, each comprised of 2 parts with a pause between.
- The first part is used for this step. It is marked with a long pause before it.
- This part is a sequence of dots and dashes but it won't necessarily be valid letter or number in morse.
- Take each part in reading order (left to right, top to bottom) and convert them into binary where a dot = 0 and a dash = 1.
- · Concatenate the binary into one string.

Step 2: Getting the second string

- Convert each letter to morse code (use Appendix MORSE if you don't know morse code).
- · Convert the morse code to binary in the same way as before.
- · Concatenate the binary into one string.
- Both strings will always be the same length.

Step 3: XOR

• Use the truth table below to XOR the 2 binary strings.

Bit 1	Bit 2	Output	
0	0	0	
0	1	1	
1	0	1	
1	1	0	

- The second part of the flashes is a number in morse code.
- Use the 5 numbers to break the output of the XOR into 5 parts.
- For example, if the 5 numbers were 3, 1, 2, 2, and 1 and the binary string was 101101100, the result would be 101, 1, 01, 10 and 0.

Step 4: Getting the order

- Convert the binary into morse where 0 = a dot and 1 = a dash.
- Translate the morse into a word (use Appendix MORSE if you don't know morse code).
- Look up the word in the table below to get the order that the letters should be pressed.

Word	Order	Word	Order
ADMIT	42351	MUTED	15432
AWARD	25341	NERDS	54312
BANJO	42153	NIXIE	24351
BRAVO	32451	OOZED	14253
CHILL	32541	OXIDE	13425
CYCLE	41523	PARTY	25314
DECOR	31542	PURSE	14532
DISCO	12534	QUEST	12345
EERIE	53214	RETRO	42135
ERUPT	43125	ROUGH	14523
FEWER	24531	SCOWL	41352
FUZZY	21453	SIXTH	43152
GERMS	41325	THANK	53214
GUSTO	23451	TWINE	42513
HAULT	45321	UNBOX	23514
HEXED	12534	USHER	53214
ICHOR	13542	VIBES	41532
INFER	31452	AOICE	14235
JEWEL	31524	WHIZZ	13425
KTANE	54123	WRUNG	12453
LADLE	15324	XENON	21435
LYRIC	35214	YOLKS	32451
MANGO	51432	ZILCH	45312

Appendix MORSE

A В D Ε G K M Ν O P Q R S T