Digital Play

DESCRIPTION : My friend made this encryption circuit to encrypt the text. Could you help to decrypt that text.

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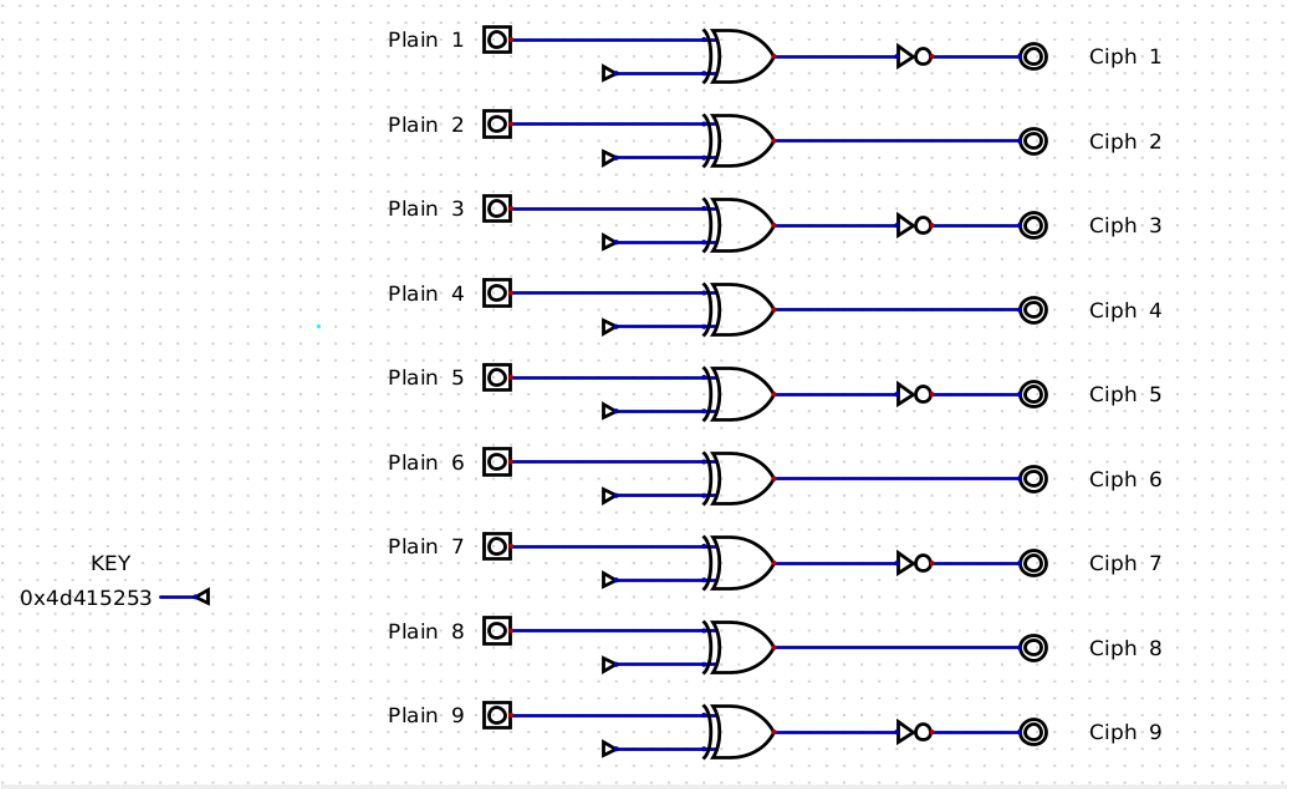
There are two files: encrypt.dig and enc.txt.

enc.txt:

It look like a binary number.

encrypt.dig :

I just search about **.dig** file extension.Then I finally found one application for open it.(https://github.com/hneemann/Digital).



They use a logic gates for encryption.
Process: Xor the plain text with xor key (0x4d415253) and inverse the even number plain text.

Let make an decrypt script :

1.Inverse the even number encrypt text.
2.Change the binary number to integer number.
3.Xor the integer number with xor key(0x4d415253).
4.Then unpack the hex value with the help struct module.
5.Finally change the byte text to string.

Run the script:

```
Rakesh@TamilCTF → python3 decrypt.py

TamilCTF{D1g1T_CiRCu1T5_aRe_AwE50Me}
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