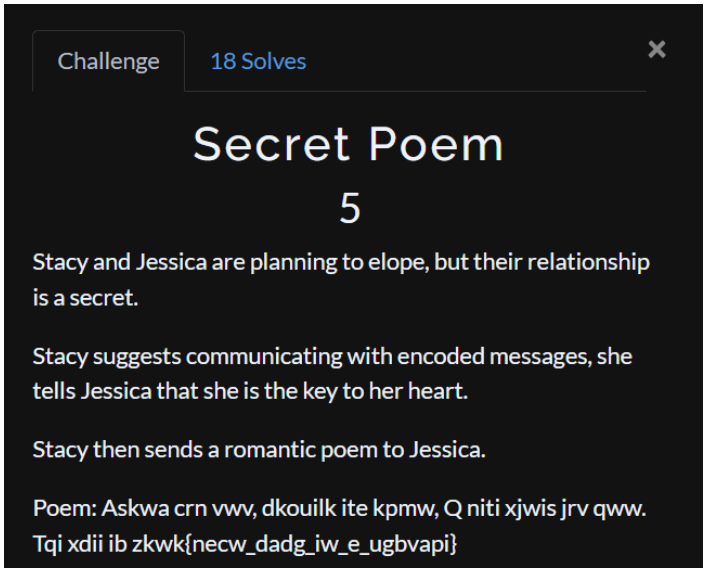
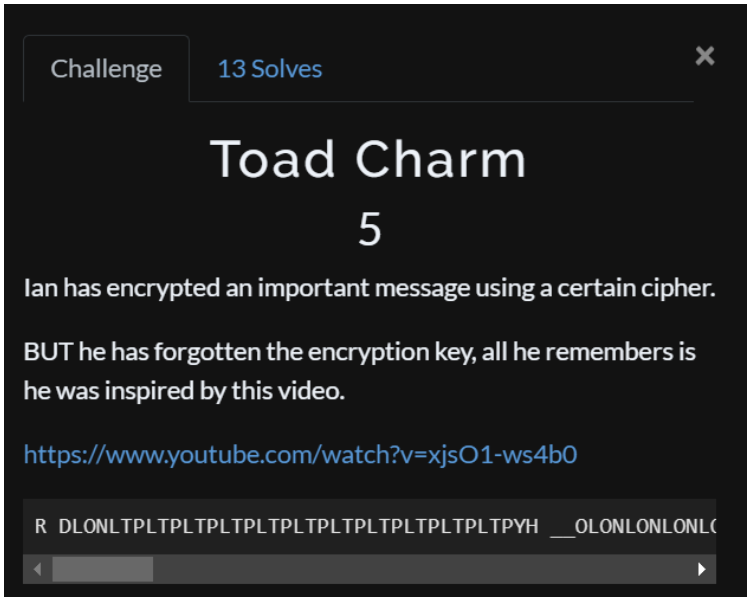
2022 – Vic CTF – Challenge Answers (by Sofie)



Vigenere cipher, key is Jessica

https://www.dcode.fr/vigenere-cipher

`Flag: vsec{lets_live_in_a_cottage}`



Columnar Transposition Cipher, key is HYPNOTOAD

https://www.boxentriq.com/code-breaking/columnar-transposition-cipher

Flag: `vsec{ALL_GLORY_TO_THE_HYPNOTOAD}`

Eyes of Emerald Green

5

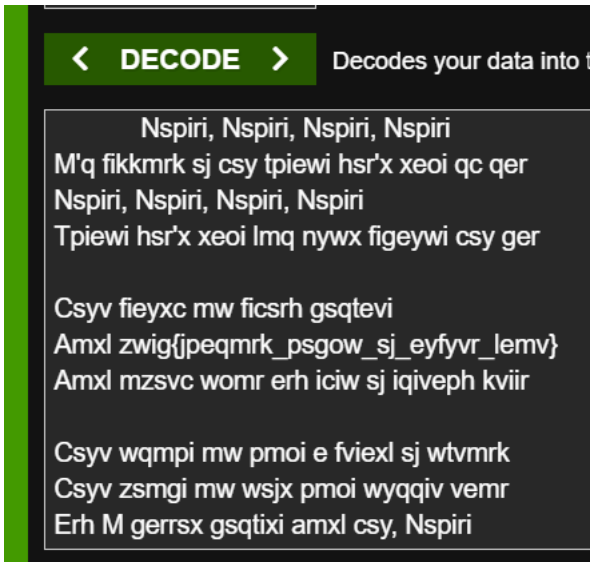
Dolly is worried her husband is in love with another women,

In order to avoid a scandal, she decides to send an encrypted message to this women.

Message:

CSAgICBOc3BpcmksIE5zcGlyaSwgTnNwaXJpLCBOc3Bpcmk
KTSdxIGZpa2ttcmsgc2ogY3N5IHRwaWV3aSBoc3IneCB4Z
W9pIHFjIHFlcgpOc3BpcmksIE5zcGlyaSwgTnNwaXJpLCBOc
3BpcmkKVHBpZXdpIGhzcid4IHhlb2kgbG1xIG55d3ggZmlnZ
Xl3aSBjc3kgZ2VyCgpDc3l2IGZpZXl4YyBtdyBmaWNzcmggZ
3NxdGV2aQpBbXhsIHp3aWd7anBlcW1ya19wc2dvd19zal9l
eWZ5dnJfbGVtdn0KQW14bCBtenN2YyB3b21yIGVyaCBpY
2l3IHNqIGlxaXZlcGgga3ZpaXIKCkNzeXYgd3FtcGkgbXcgcG1
vaSBlIGZ2aWV4bCBzaiB3dHZtcmsKQ3N5diB6c21naSBtdy
B3c2p4IHBtb2kgd3lxcWl2IHZlbXIKRXJoIE0gZ2VycN4IGdz
cXRpeGkgYW14bCBjc3ksIE5zcGlyaQ==

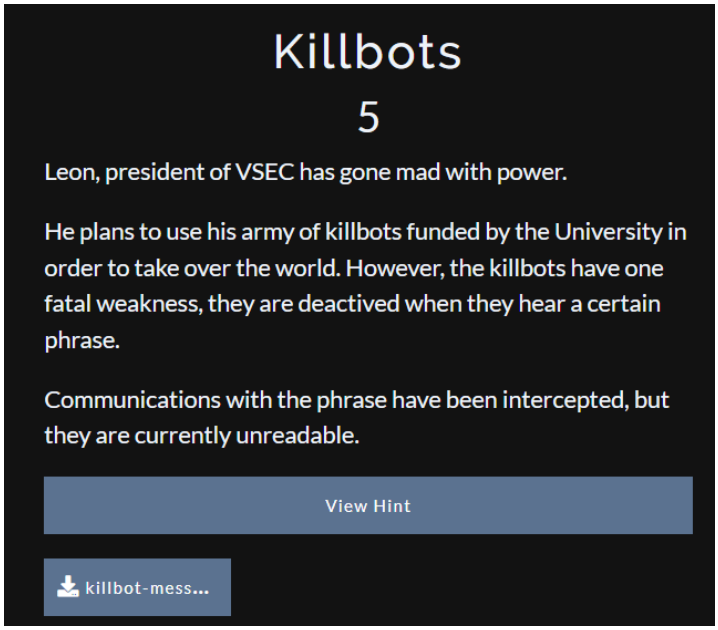
Base64, https://www.base64decode.org/



Caesar Cipher

https://cryptii.com/pipes/caesar-cipher

Flag: `vsec{flaming_locks_of_auburn_hair}`



Binary to Ascii

https://www.rapidtables.com/convert/number/binary-to-ascii.html

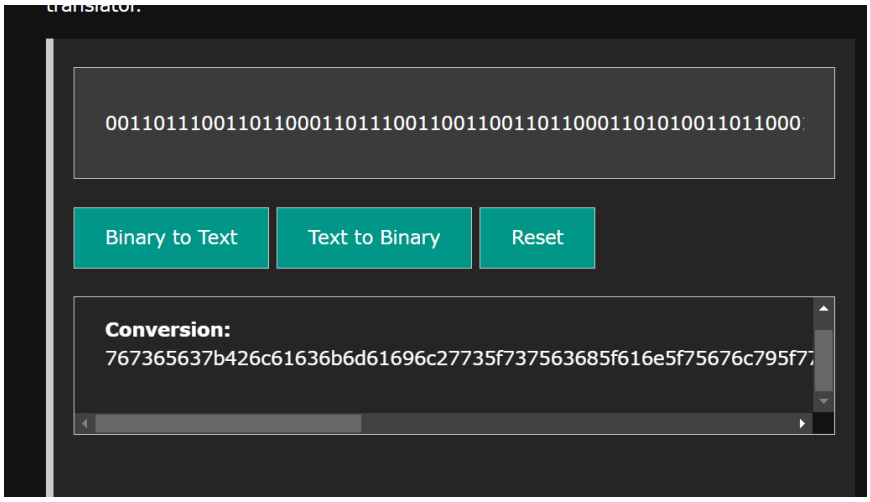
Ascii to Text

Flag:
`vsec{In_the_game_of_chess_you_can_never_let_your_adversary_see_your_pieces}`

Octal to Binary

https://www.binaryhexconverter.com/octal-to-binary-converter

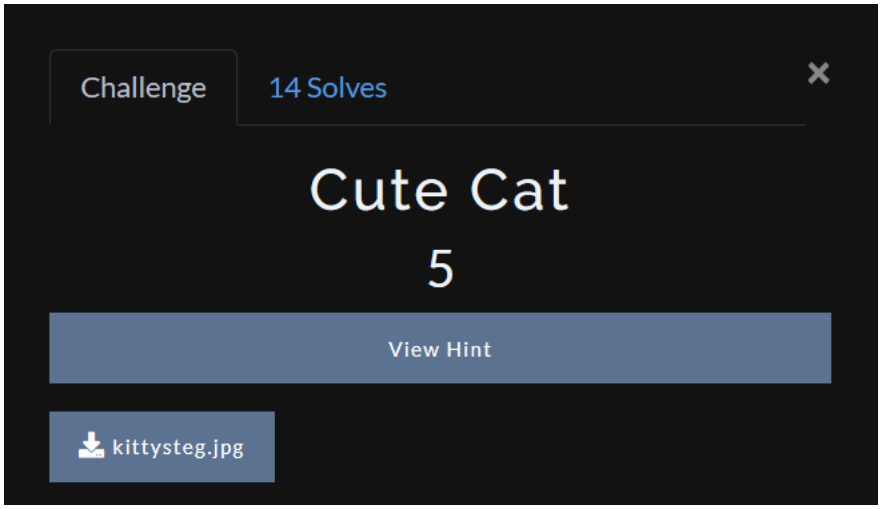
Binary to Text



Notice that the output is a Hexadecimal number

Hex to Text - http://www.unit-conversion.info/texttools/hexadecimal/

Flag:
`vsec{Blackmail's_such_an_ugly_word._I_prefer_extortion._The_X_makes_it_sound_cool.}`

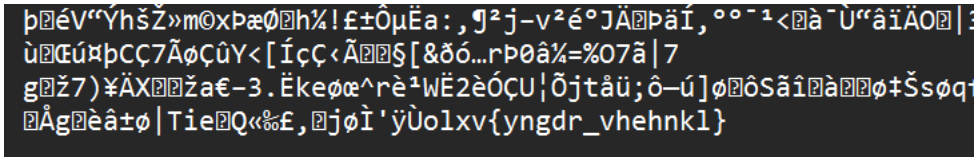


https://futureboy.us/stegano/decinput.html

No password, using steghide

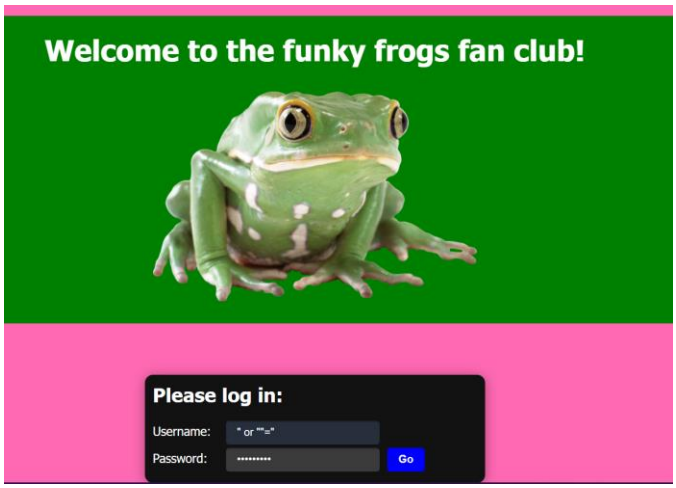
Flag: `vsec{pretty_flag_cat}`

View with Notepad



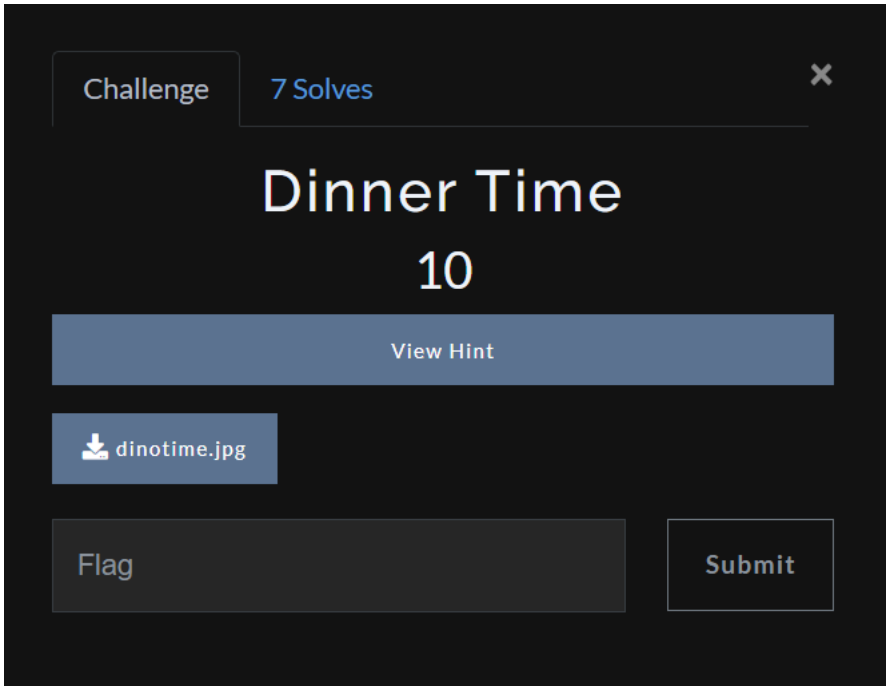
Ceasar Cipher – https://cryptii.com/pipes/caesar-cipher

Flag: `vsec{funky_colours}`



SQL injection, " or ""="

Flag: `vsec{amazon_milk_frog}`



View with Notepad

```
‡G@±E* R~eÝÉÿ zŠ(\ÖŽ×êDz|7üHoR'RO™t\N}ëêÂ&LM,q†B
ÉÍÃhç¥S™˜ßÈ…›ø˜qT‰,}XÑE@3ÃZt.L÷W A

Ý‘å¦K:ñž8_¥m[kUœERî8#Á
×5ÏÿÙpassword=03318769a5ee1354f7479acc69755e7c
```

Decrypt MD5 Password, https://md5decrypt.net/en/#answer

Use Password to find flag in image.

https://futureboy.us/stegano/decinput.html

Flag: `vsec{I_want_to_eat_a_dino}`