

2022 – Vic CTF – Challenge Answers (by Sofie)

A screenshot of a challenge interface. At the top left, there's a button labeled 'Challenge'. To its right, it says '18 Solves'. In the top right corner, there's a close button 'X'. The main title of the challenge is 'Secret Poem' in a large, bold, white font, with a subtitle '5' below it. The description of the challenge is written in a smaller white font: 'Stacy and Jessica are planning to elope, but their relationship is a secret. Stacy suggests communicating with encoded messages, she tells Jessica that she is the key to her heart. Stacy then sends a romantic poem to Jessica.' At the bottom, the poem text is shown: 'Poem: Askwa crn vww, dkouilk ite kpmw, Q niti xjwis jrv qww. Tqi xdii ib zkww{necw_dadg_iw_e_ugbvapi}'.

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

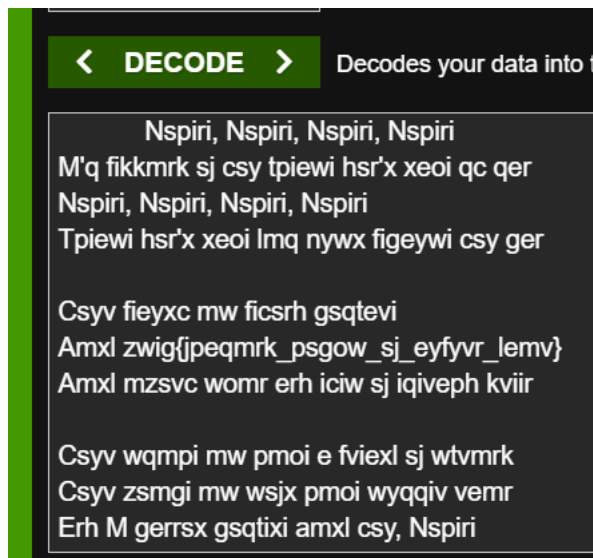
Dolly is worried her husband is in love with another women,

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

Message:

```
CSAgICBOc3BpcmkslE5zcGlyaSwgTnNwaXJpLCBOc3Bpcmk  
KTSdxIGZpa2ttcmSc2ogY3N5IHJwaWV3aSBoc3lneCB4Z  
W9pIHFIHFlcGpOc3BpcmkslE5zcGlyaSwgTnNwaXJpLCBOc  
3BpcmkKVHBPZXdpIGhzcid4IHhjb2kgbG1xIG55d3ggZmlnZ  
XI3aSBjc3kgZ2VyCgpDc3l2IGZpZXI4YyBtdyBmaWNzcmggZ  
3NxdGV2aQpBbXhslHp3aWd7anBlcW1ya19wc2dvd19za19l  
eWZ5dnJfbGVtdn0KQW14bCBtenN2YyB3b21yIGVyaCBpY  
2l3IHhlcGp3aXZlcGgga3ZpaXIKCkNzeXYgd3FtcGkgbXcgG1  
vaSBIGZ2aWV4bCBza1B3dHZtcmsKQ3N5diB6c21naSBtdy  
B3c2p4IHhjb2kgd3lxcWI2IHZlbXIKRXJoIE0gZ2VycnN4IGdz  
cXRpeGkgYW14bCBjc3ksIE5zcGlyaQ==
```

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



Caesar Cipher

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

Flag: vsec{flaming_locks_of_auburn_hair}

Killbots

5

Leon, president of VSEC has gone mad with power.

He plans to use his army of killbots funded by the University in order to take over the world. However, the killbots have one fatal weakness, they are deactivated when they hear a certain phrase.

Communications with the phrase have been intercepted, but they are currently unreadable.

[View Hint](#)

 killbot-mess...

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}

Challenge

4 Solves

×

Inky the Octopus

10


Inky the Octopus is a spy .

Inky is currently undercover at a high profile museum, undertaking an investigation on the shady museum owners.

He sends a message to his higher ups. He is worried the museum could intercept the message, so he encodes it multiple times.

[View Hint](#)

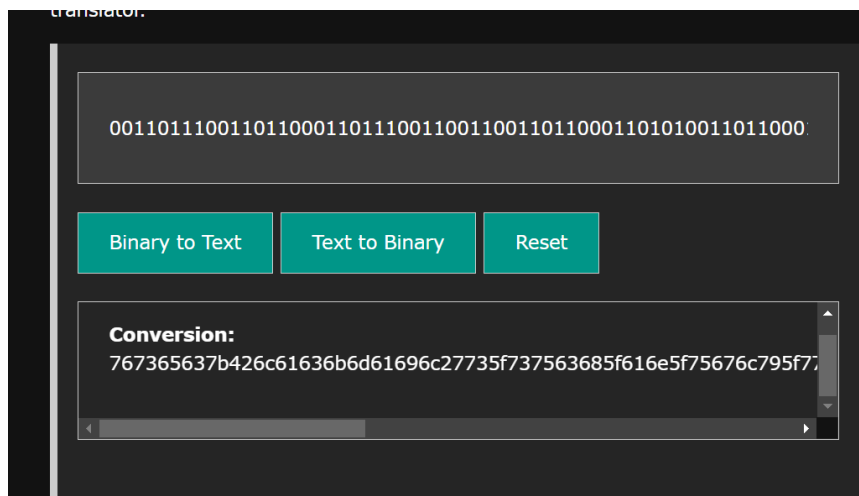
[View Hint](#)

 octopus.txt

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:

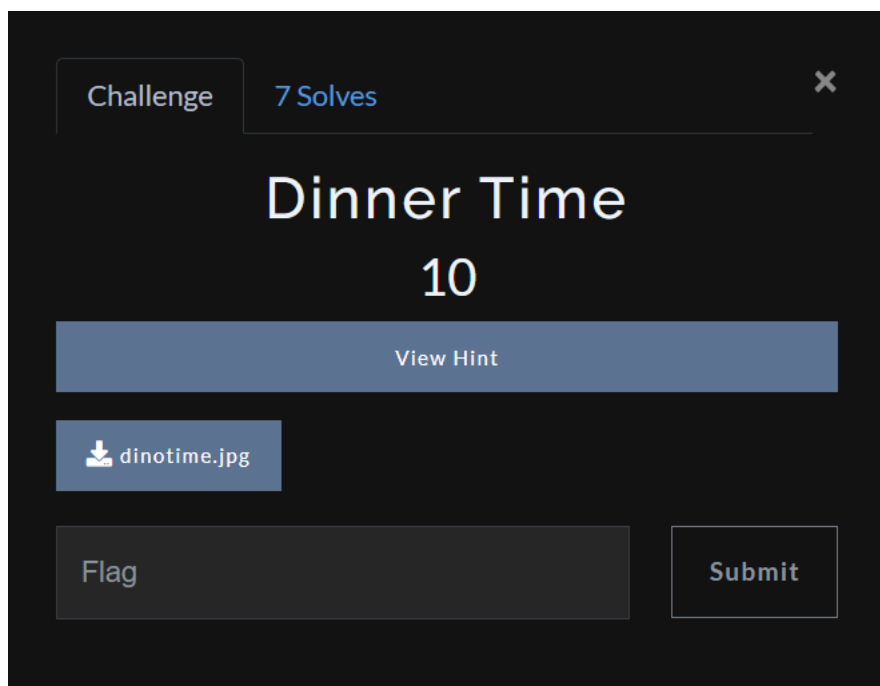
vsec{Blackmail's_such_an_ugly_word._I_prefer_extortion._The_X_makes_it_sound_cool.}



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

No password, using steghide

Flag: vsec{pretty_flag_cat}



View with Notepad

```
±G@±E* R~eYÉÿ zŠ(\ÖŽ×êDz|7üHoR'RO™t\N}ëêÂ&LM,q†B  
É@IÄhç¥S™~ßÊ...>ø~qT%,}XÑE@3Äzt.L÷WÄA  
  
Y'â|K:ñž8_¥m[kUæERî8#Á  
x5ÏÿÜpassword=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}

