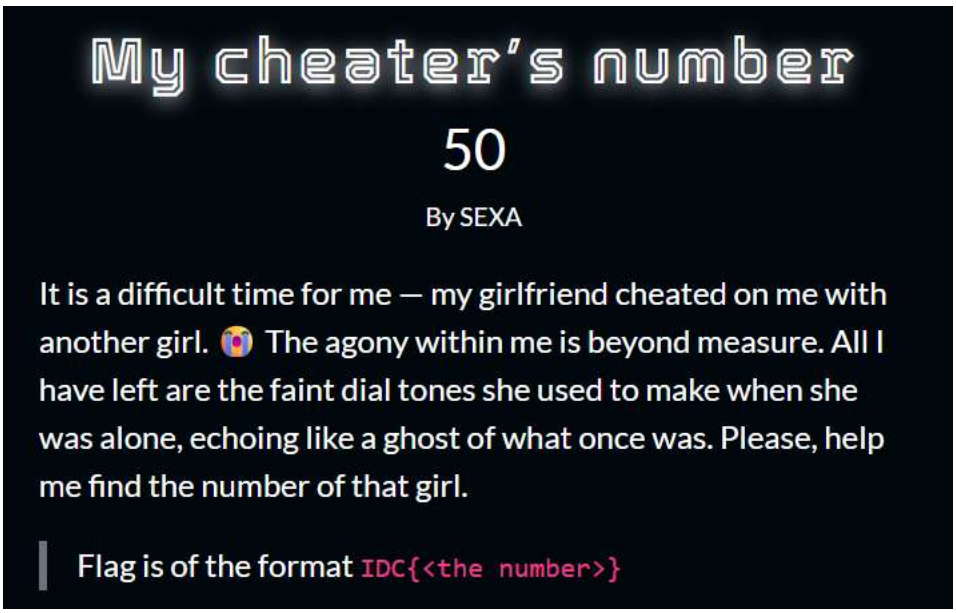
# My Cheater's Number

20 November 2025 13:46

**CATEGORY: Cryptography**



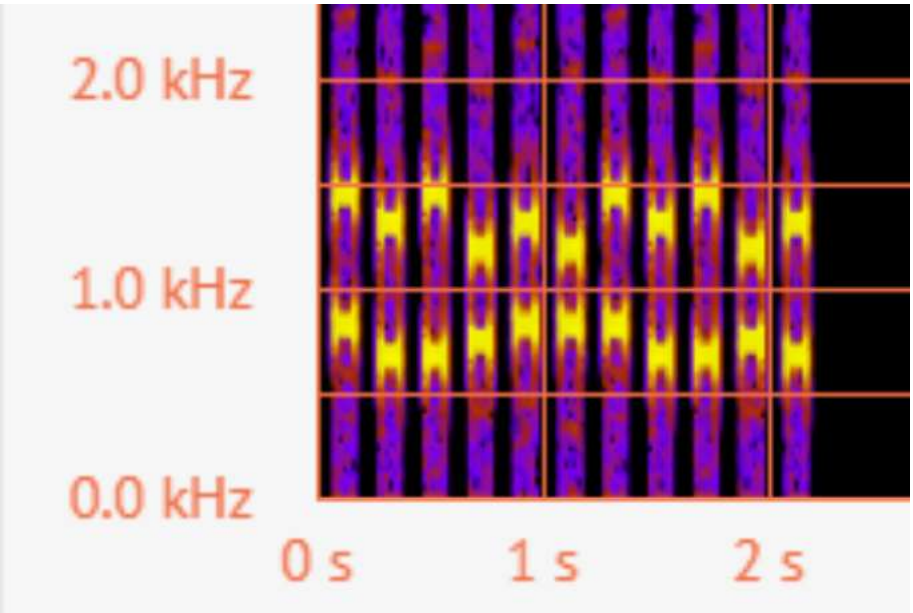

**STEP BY STEP SOLUTION**

On playing the audio we hear dial tones. Dial tones use DTMF signalling to encode the numbers 0 to 9 using a combination of a low frequency tone and a high frequency tone. DTMF stands for "Dial-Tone Multi Frequency".

So our task is to basically analyse the frequency of the audio to find the high and low frequency components of each dial tone.

For this I used <https://www.maztr.com/audiospectrumanalyzer>.

Here's the result after analysing the audio:




Let us compare this with the standard DTMF codes given below

**DTMF keypad frequencies (with sound clips)**

| | 1209 Hz | 1336 Hz | 1477 Hz | 1633 Hz |
|---|---|---|---|---|
| **697 Hz** | 1 | 2 | 3 | A |
| **770 Hz** | 4 | 5 | 6 | B |
| **852 Hz** | 7 | 8 | 9 | C |
| **941 Hz** | * | 0 | # | D |

We find the number to be: 92348792342
And just like that we have our flag.

**FLAG: IDC{92348792342}**