

# My Cheater's Number

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**CATEGORY: Cryptography**

The screenshot shows a challenge titled "My cheater's number" with a value of 50. It is attributed to "By SEXA". The challenge text reads: "It is a difficult time for me – my girlfriend cheated on me with another girl. 😢 The agony within me is beyond measure. All I have left are the faint dial tones she used to make when she was alone, echoing like a ghost of what once was. Please, help me find the number of that girl." A note below the text states: "Flag is of the format IDC{<the number>}".

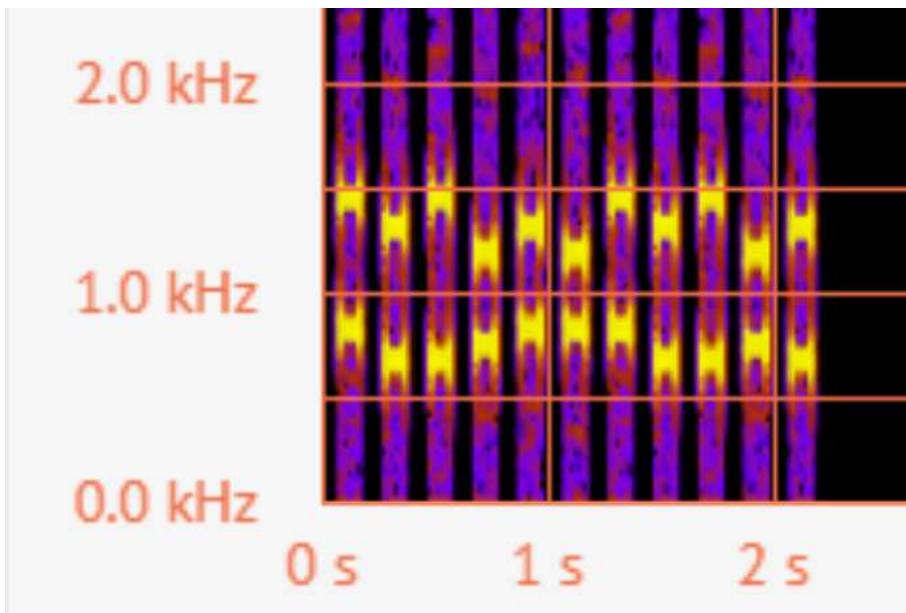
## STEP BY STEP SOLUTION

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}**