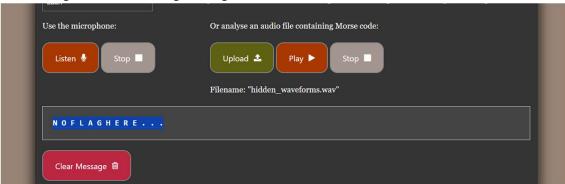


HIDDEN WAVEFORMS

Description:

Hidden in the waves lies a secret. Can you find it?

Listening to the audio revealed a beeping sound, identified as Morse code. However, decoding it with online tools did not provide the expected flag or hint instead show 'NOFLAGHERE...'. Furthering my steps. I also examining metadata using exiftool, inspecting the file with binwalk, and exploring potential steganography methods, but no significant findings emerged.



1. Steghide

Upon testing the image with steghide, the file was extracted accidentally without
requiring a password, revealing the data.

```
(osiris@ALICE)-[~/Downloads/CTF/STOUTCTF/Crypto/hidden_wave]
$ steghide extract -sf hidden_waveforms.wav
Enter passphrase:
wrote extracted data to "secrets_in_sound.txt".
```

2. Decimal to Text

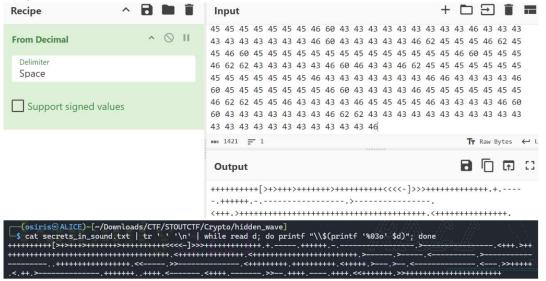
Reading the text file will get to see the decimal code.

```
$
cat secrets_in_sound.txt | tr ' ' '\n' | while read d; do printf
"\\$(printf '%03o' $d)"; done
```



3. Alternative way:

Alternative way of decode could use any online software decode generator such as CyberChef.



4. Brainfuck Decode:

Now we encounter a new encoded. But this one I'm already familiar with it. It is called 'BrainFuck'. Use any cipher decoder online tools.



Flag STOUTCTF{U60vEbbs1eNX6UcG3hGIZaaeB70cgcg7}