

WRITEUP SONG OF NUMBER

1. The song gives us two files initially **pic.jpg** and **song.zip**

The songs shows random number sequence



I use exiftool to find some information and then I got

```

ExifTool Version Number      : 11.88
File Name                    : pic.jpg
Directory                   : .
File Size                   : 527 kB
File Modification Date/Time  : 2022:02:15 17:59:56+07:00
File Access Date/Time       : 2022:07:12 00:59:05+07:00
File Inode Change Date/Time  : 2022:07:11 23:54:43+07:00
File Permissions             : rwxrwxrwx
File Type                   : JPEG
File Type Extension         : jpg
MIME Type                   : image/jpeg
XMP Toolkit                 : Image::ExifTool 12.32
Description                 : cmVjYW1hbnNheXN0aGVzZXF1ZW5jZW5hc2JlZW5tb2RpZmllZGZpbmR0aGVta
XN0YWtlyW5kdGhleXdpbGxsZW5keW91dGhlcGFzc3dvcnQ=
DCT Encode Version         : 100
APP14 Flags 0              : [14]
APP14 Flags 1              : (none)
Color Transform             : YCbCr
Image Width                 : 1024
Image Height                : 1024
Encoding Process            : Baseline DCT, Huffman coding
Bits Per Sample             : 8
Color Components            : 3
Y Cb Cr Sub Sampling       : YCbCr4:4:4 (1 1)
Image Size                 : 1024x1024
Megapixels                 : 1.0

```

The description of the image sounds like base64 and after decode it it gives

Recamansaysthesequencehasbeenmodifiedfindthemistakeandt heywilllendyouthepassword

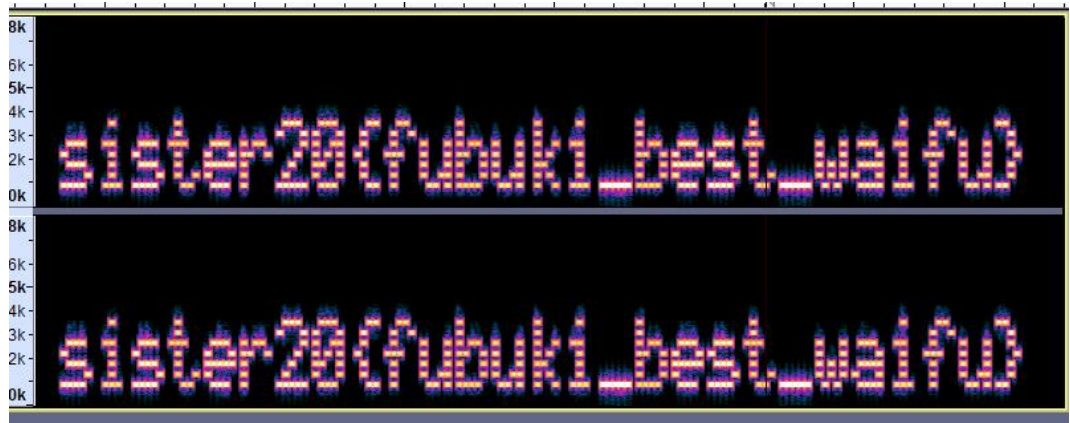
So I lookup to the OEIS and found the recaman sequence and after that I got this sequence

103 048 110 051 120 116 053 116 051 112

Decode it into ascii and I got the password **g0n3xt5t3p**

Now I can extract the zip and found **sound of something.mp3**

I examine using audacity and found weird noise in the middle of the song and after zoom in I got the flag



sister20{fubuki_best_waifu}

-gawrgare