

## Solution

Looking at the values are grouped into 3 in each array and the values are from 0 to 255. We can immediately recognize that these are the RGB values of an image.

To convert RGB values into images. We need its size.

Counting the number of sets of values we get 4191811 sets.

$$4191811 = 3 \times 281 \times 1499$$

From here we can guess that the image size could be 281x3, 1499 or 1499x3, 281

Trying out the length and height cases, here is the script with the correct height length

```
from PIL import Image
import numpy as np

with open('WheelOfFortune.txt', 'r') as file:
    data = eval(file.read())

image_data = np.array(data)

image_data = image_data.reshape((843, 1499, 3))

image = Image.fromarray(image_data.astype('uint8'))

image.save('WheelOfFortune.png')
```

We get the image



We see a pastebin link, but the problem is that the last character is being hidden, and the letters are not case sensitive

Write a script to bruteforce all url cases and send a request to find the correct pastebin link containing the flag

```
1 import requests
2 from itertools import product
3 import string
4
5 url = "https://pastebin.com/raw/"
6 printable = string.ascii_letters + string.digits
7
8 for combination in product(*[['Y', 'y'], ['i', 'I'], ['6'], ['h', 'H'], ['g', 'G'], ['w', 'W'], ['q', 'Q'], printable]):
9     current_url = url + ''.join(combination)
10    print(current_url)
11
12    response = requests.get(current_url)
13
14    if "LNC24{" in response.text:
15        print(f"Found flag in {current_url}")
16        print("Content:", response.text)
17        exit()
```

https://pastebin.com/raw/Yi6hgwqa  
https://pastebin.com/raw/Yi6hgwqb  
https://pastebin.com/raw/Yi6hgwqc  
https://pastebin.com/raw/Yi6hgwqd  
https://pastebin.com/raw/Yi6hgwqe  
https://pastebin.com/raw/Yi6hgwqf  
https://pastebin.com/raw/Yi6hgwqg  
https://pastebin.com/raw/Yi6hgwqh  
Found flag in https://pastebin.com/raw/Yi6hgwqh  
Content: LNC24{D0\_n0t\_4ll0w\_th3m\_p34c3\_2687f2b41646cc94394c06208d2444df}  
[Finished in 12.2s]