## **RACTF2020 Writeup - Cut Short**

This image refuses to open in anything, which is a bit odd. Open it for the flag!

## 200 Points

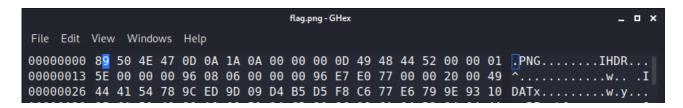
This challenge came with a PNG file that could not be opened. I used ghex to have a look at the magic bytes to see if there was anything untoward:

```
File Edit View Windows Help

000000000 89 50 4E 47 0D 0A 1A 0A 00 00 00 49 45 4E 44 AE 42 60 82 00 00 PNG.....IEND.B`...

000000016 00 0D 49 48 44 52 00 00 01 5E 00 00 00 96 08 06 00 00 00 96 E7 E0 ..IHDR...^.....
```

Straight away, I found IEND near the beginning of the file, which means the file is terminated too early. To fix this I removed all data from offset 0xC up to 0x16, and changed offset 0xB from 00 to 0D. The result is as follows:



Now the file can be opened, revealing the flag:

