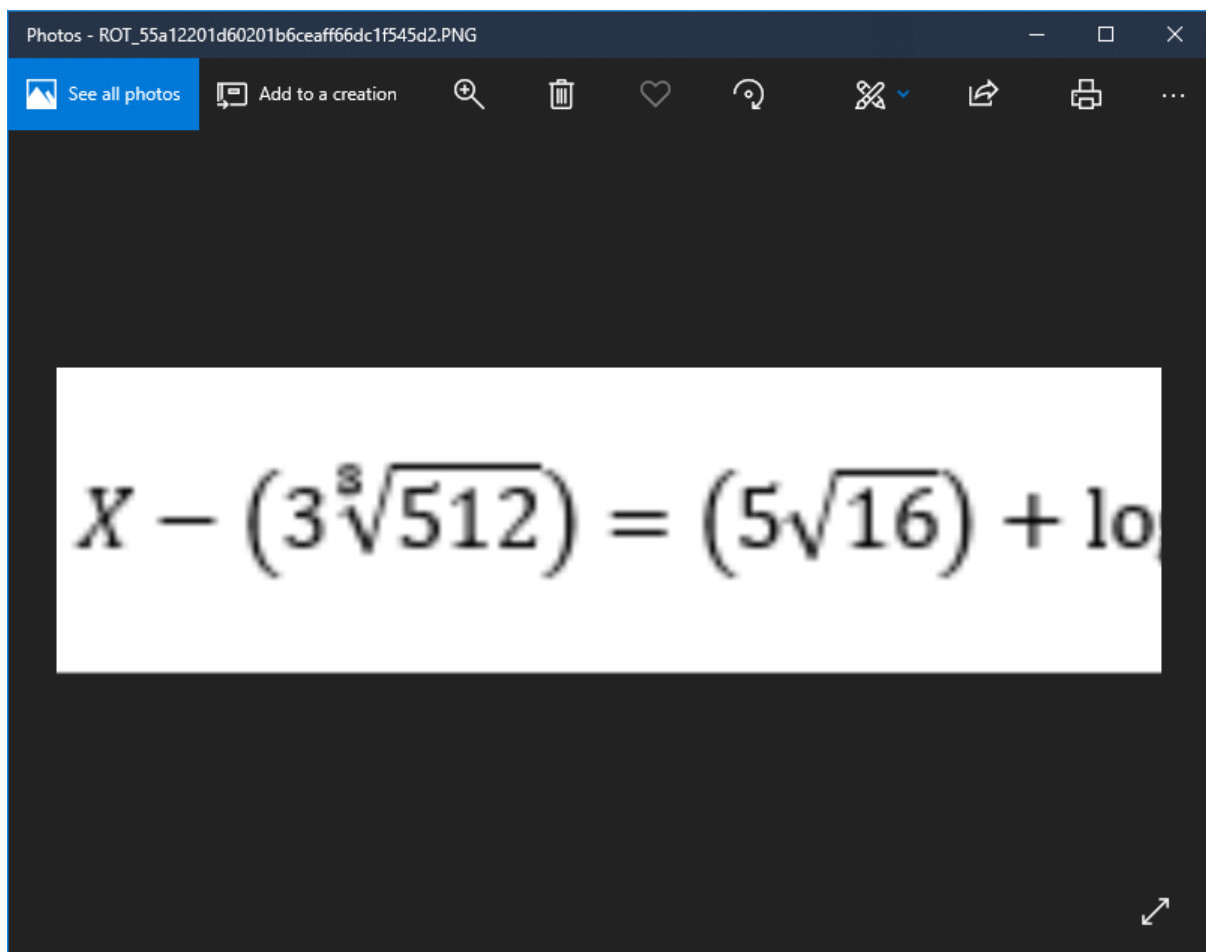


## Day 3 Challenge 1

By Bingsu Strawberry from IIUM

Step 1 :

As per usual, the first step we do is actually looking at the picture and zooming in to see anything hidden in plain sight.



Step 2 :

If that fails time to do some analysis first because this is a png file, it's harder than usual .jpg challenges. We used exiftool to first check for anything.

```
C:\Users\keroky\Desktop\exiftool-11.15 (1)\exiftool(-k).exe
ExifTool Version Number      : 11.15
File Name                    : ROT_55a12201d60201b6ceaff66dc1f545d2.PNG
Directory                   : C:/Users/keroky/Desktop/New folder/Day3/Challenge 1
File Size                    : 1706 bytes
File Modification Date/Time  : 2018:10:26 02:13:36+08:00
File Access Date/Time       : 2018:10:26 10:28:18+08:00
File Creation Date/Time     : 2018:10:26 02:13:35+08:00
File Permissions             : rw-rw-rw-
File Type                   : PNG
File Type Extension         : png
MIME Type                   : image/png
Image Width                 : 256
Image Height                : 51
Bit Depth                   : 8
Color Type                  : RGB with Alpha
Compression                 : Deflate/Inflate
Filter                     : Adaptive
Interlace                  : Noninterlaced
sRGB Rendering              : Perceptual
Gamma                      : 2.2
Pixels Per Unit X           : 3779
Pixels Per Unit Y           : 3779
Pixel Units                 : meters
Image Size                  : 256x51
Megapixels                  : 0.013
-- press RETURN --
```

Doesn't seem to say much.

Step 3 :

More analysis tools.

```
root@kali: ~/Desktop/Day3/Challenge 1
File Edit View Search Terminal Help
root@kali:~/Desktop/Day3/Challenge 1# binwalk pic.png

DECIMAL      HEXADECIMAL    DESCRIPTION
-----
0            0x0           PNG image, 256 x 51, 8-bit/color RGBA, non-interlaced
91           0x5B         Zlib compressed data, compressed

root@kali:~/Desktop/Day3/Challenge 1#
```

Running binwalk on the image doesn't provide anything much. Seems to be standard png file.

```
root@kali: ~/Desktop/Day3/Challenge 1
File Edit View Search Terminal Help
root@kali:~/Desktop/Day3/Challenge 1# strings pic.png >out
root@kali:~/Desktop/Day3/Challenge 1#
```

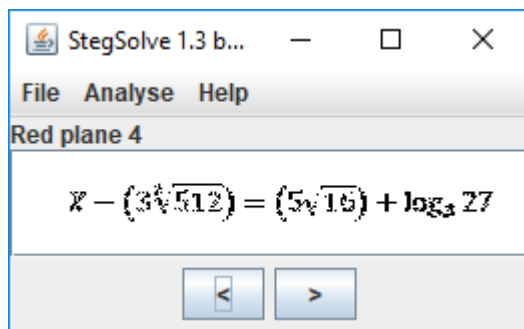
Pull out the strings of hex file from the png.

```
C:\Users\keroky\Desktop\New folder\Day3\Challenge 1\Challenge 1\outpic - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
new 1 x setup_0745ca866c42394bb132cd117d1e9d13_0745ca866c42394bb132cd117d1e9d13.exe ROT_55a12201d60201b6ceaff66dc1f545d2.PNG BongoCatz.mp4 outpic x
1 IHDR
2 eRGB
3 gAMA
4 pHYS
5 ?IDATx^
6 0fb1
7 0fb1
8 x{A.
9 w///
10 yzz:
11 3cD3
12 QTM_
13 0=xB'b0
14 lJo5
15 ^;rk
16 #>[3
17 ^|Nw
18 i=s=
19 TS\#
20 T2 5V
21 FF,z
22 t^yP
23 <_j^4Hk
24 'B,f
25 =9PAE
26 u-="*
27 L_\%
28 _D?#
29 V<4#
30 0fb1
31 0fb1
32 IEND
33
Normal text file length: 173 lines: 33 Ln: 1 Col: 1 Sel: 0|0 Unix (LF) UTF-8 INS
```

There doesn't seem to be anything rather peculiar aswell in the hex.

Step 4 :

We used a tool called Stegsolve to try to analyse the pic.



Doesn't show us anything much aswell.

Unfortunately we couldn't solve this problem. Png files have always been our weak point and its something we hope to improve on.