

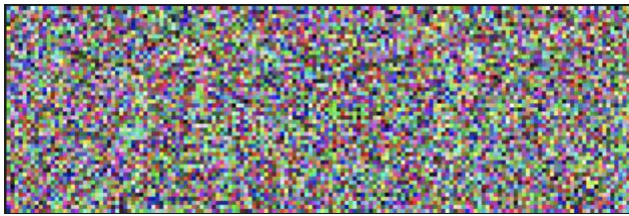
Chan Ng Cashin
ECE 404
HW 05

Problem 1:

Description

In my `ctr_aes_img` function I encrypted the image using the parts of the encrypt function I had already built in HW04. Using this I encrypted the iv variable using the key then XORed that with the plaintext bitvector of the current block. I kept iterating like so until the `enc_image` file was fully encrypted.

`enc_image.ppm`



Problem 2:

Description

To develop my random numbers, I followed the block diagram given in lecture 10. Iterating in the range of the total number given in the function call I first encrypted `dt` using a previously built encrypt function. Next, I XOR this encrypted `dt` with the `v0` variable getting passed into the function. Next, I encrypted this XORed value. I added this number to the list holding the random numbers and then encrypted this random number XORed with the encrypted `dt` and stored it as the new `v0` value.

`random_numbers.txt`

```
331374527193731622526773163027689011175
26263303708022960927873924862754889187
6213881104399286406150948824157995508
317525806849049200816126045738729418009
240080400546264647934751409092776671804
```