

```
PNG
>>> print data[0:11]
|o+R{|?|*?
>>> def xor(s1, s2):
       res = [chr(0)]*12
        for i in range(len(res)):
. . .
                q = ord(s1[i])
...
               d = ord(s2[i])
. . .
               k = q \wedge d
. . .
                res[i] = chr(k)
...
       res = ''.join(res)
. . .
       return res
. . .
. . .
>>> xor(data[0:12],data2[0:12])
'\x03?e\x15v\xea%\xbc*\xd3\xb5\r'
>>> print xor(data[0:12],data2[0:12])
?ev¦%¦*?
>>> key = xor(data[0:12],data2[0:12])
>>> enc_data = ''
>>> for i in range(0, len(data), 12):
      enc = xor(data[i:i+12], key)
       enc_data += enc
...
>>> with open('decrypted.png', 'wb') as f:
        f.write(enc_data)
. . .
>>> exit()
```



This gives us this image:

with the flag

TUCTF{st@llowning_xOR_5ince_Apollo}

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