

tamuctf 2020 sigma

Saturday, March 7, 2020 12:16 PM

Just are given this big number:

103208311412521644754805923974108811831284140215201571168517801894194219912099219423152416253
02578269728072902300131153236334834643575368637343782389340044129

I noticed the first 3 digits are 103 and that is ascii for 'g'.

Led to this approach:

```
digits =  
'103208311412521644754805923974108811831284140215201571168517801894194219912099219423152416253  
302578269728072902300131153236334834643575368637343782389340044129'
```

```
# g 103 - 0  
# i 208 - 103 = 105  
# g 311 - 208 = 103  
# e 412 - 311 = 101  
# m 521 - 412 = 109  
# { 644 - 521 = 123  
# n 754 - 644 = 110  
# 3 805 - 754 = 51  
# ?
```

```
offset = 0  
numDigits = 3  
prevNum = 0  
flag = ''  
while offset < len(digits):  
    num = int(digits[offset:offset + numDigits])  
    while num < prevNum:  
        numDigits = numDigits + 1  
        num = int(digits[offset:offset + numDigits])  
    charCode = num - prevNum  
    flag = flag + chr(charCode)  
  
    offset = offset + numDigits  
    prevNum = num  
  
print(flag)
```

gigem{n3v3r_ev3r_r01l_yer0wn_cryptoo00oo}

