

HGAME Week1 WriteUp

Web

Cosmos 的博客

先按F12，没发现什么有用的信息，但提到了github，百度一下，猜可能是常见的git泄露，在URL后面加.git跳转到了<http://cosmos.hgame.n3ko.co/.git/>

ⓘ 不安全 | cosmos.hgame.n3ko.co

Cosmos 的博客

你好。欢迎你来到我的博客。

大茄子让我把 **flag** 藏在我的这个博客里。但我前前后后改了很多遍，还是觉得不满意。不过有大茄子告诉我的**版本管理工具**以及 GitHub，我改起来也挺方便的。

看上去是有这么一个目录，然后再百度了一下，发现了这个config文件的存在

← → ↻ ⓘ 不安全 | cosmos.hgame.n3ko.co/.git/config

```
[core]
  repositoryformatversion = 0
  filemode = true
  bare = false
  logallrefupdates = true
[remote "origin"]
  url = https://github.com/FeYcYodhrPDJSru/8LTUKCL83VLhXbc
  fetch = +refs/heads/*:refs/remotes/origin/*
```

然后直接打开github看看，翻了半天，最后再commit这边找到了flag的信息

Showing 1 changed file with 1 addition and 0 deletions.

1	flaggggggggggg
...	@@ -0,0 +1 @@
1	+ base64 解码: aGdhbwV7ZzF0X2x1QGt-fMXNfZGFuZ2VyMHVzXyEhISF9

15 comments on commit f79171d

最后随便找个Base64解码工具得到了flag

请把要加密的文字粘贴到下面表单:

```
hgame{glt_le@k_ls_danger0us_!!!!}
```

BASE64加密↓

BASE64解密↑

加密结果如下:

```
aGdhhWV7ZzFOX2xlQGtfMUNfZGFuZ2VzMHVzXyEhISF9
```

接头霸王

一开始脑子没拐过来，被图片误导了一下，去尝试接了一下URL。。。后来才发现接的头是请求头，是让我从协会官网跳转过来

接头霸王



You need to come from <https://vidar.club/>.

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然后百度了一下，服务器是通过Referer来判断之前的页面的，
在请求头里加一句Referer: <https://vidar.club/> 然后发送试试

接头霸王

You need to visit it locally.

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一开始还以为是我发请求的方法不对，换了好几个软件发。。。后来才发现是要让我从本地网络访问。。。在请求头里加上X-forwarded-for: 127.0.0.1,继续发请求

接头霸王

You need to use Cosmos Brower to visit.

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第三次了，熟练了，直接改User-Agent: Cosmos Brower

接头霸王

Your should use POST method :)

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突然说要规范请求格式，那就改吧，把GET改成POST

接头霸王

The flag will be updated after 2077, please wait for it patiently.

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最后这个一脸懵逼，百度半天试着改Date，改if-modified-since，都没用，还试了下改本地时间，发现调不到2077年。。。

后来才发现居然有个叫if-unmodified-since的，这也太冷门了。。。

最后一次发送请求，加上if-unmodified-since: Fri, 01 Jan 2077 00:00:00 GMT成功得到flag。

接头霸王

hgame{W0w!Your_heads_@re_s0_many!}

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Crypto

InfantRSA

一开始真不知道这题要干什么,不过后来根据学习资料和提示的代码，知道了要做什么。

Download as text

```
1  #!/usr/bin/env python3
2  from secret import flag
3  assert flag.startswith(b'hgame{') and flag.endswith(b'}')
4
5  m = int.from_bytes(flag, byteorder='big')
6
7  p = 681782737450022065655472455411
8  q = 675274897132088253519831953441
9  e = 13
10 c = pow(m, e, p*q)
11
12 assert c == 275698465082361070145173688411496311542172902608559859019841
```

Download as text

首先按照学习资料，我们需要先得到密钥d，然后算出明文m，然后百度了一下，发现python有个gmpy2，赶紧装了一个试试。

下面是我找到的一个解密的代码

```
import gmpy2

p = gmpy2.mpz(681782737450022065655472455411)
q = gmpy2.mpz(675274897132088253519831953441)
```

```
e = gmpy2.mpz(13)
phi_n = (p - 1) * (q - 1)
d = gmpy2.invert(e, phi_n)
print ("private key:")
print (d)

c = gmpy2.mpz(275698465082361070145173688411496311542172902608559859019841)
print ("plaintext:")
print (pow(c,d,p*q))
```

然后运行了一下得到了m=39062110472669388914389428064087335236334831991333245

尝试了一下int.to_bytes逆回去，发现貌似太长了。。。

百度了一下int.from_bytes的原理，其实只是把字符串转化成16进制，再变成十进制。

然后就简单了随便找了一个进制转换工具，转成16进制，再找了一个16进制转换成字符串的工具，最终得到flag

6867616d657b74335874364f306b5f5235412121217d

16进制转字符

字符转16进制

清空结果

hgame{t3Xt6O0k_R5A!!!}

Misc

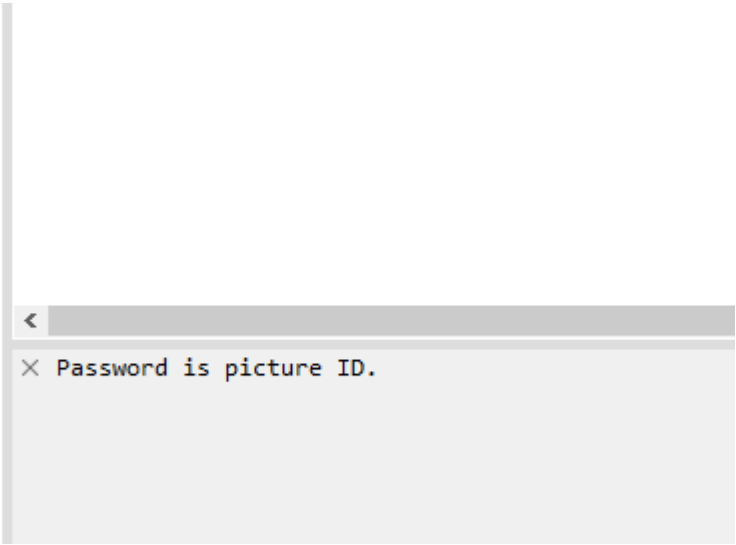
欢迎参加HGame！

这是我做出的第一题，看到题目地址是百度真想吐槽一下，然后把那串东西丢尽百度，还真百度出来了。。。有道类似的题，先base64解码，再摩斯密码，网上的在线解码工具是真的无语，找一个好用的真难。最后加上hgame{}，得到flag，但试了下不对，看了下公告是大写字母，再试了下还是不对，百度看了一下以前的的flag格式，把空格换成了_，终于对了，感觉是解码工具的锅，有的解出来连空格都没有。。。

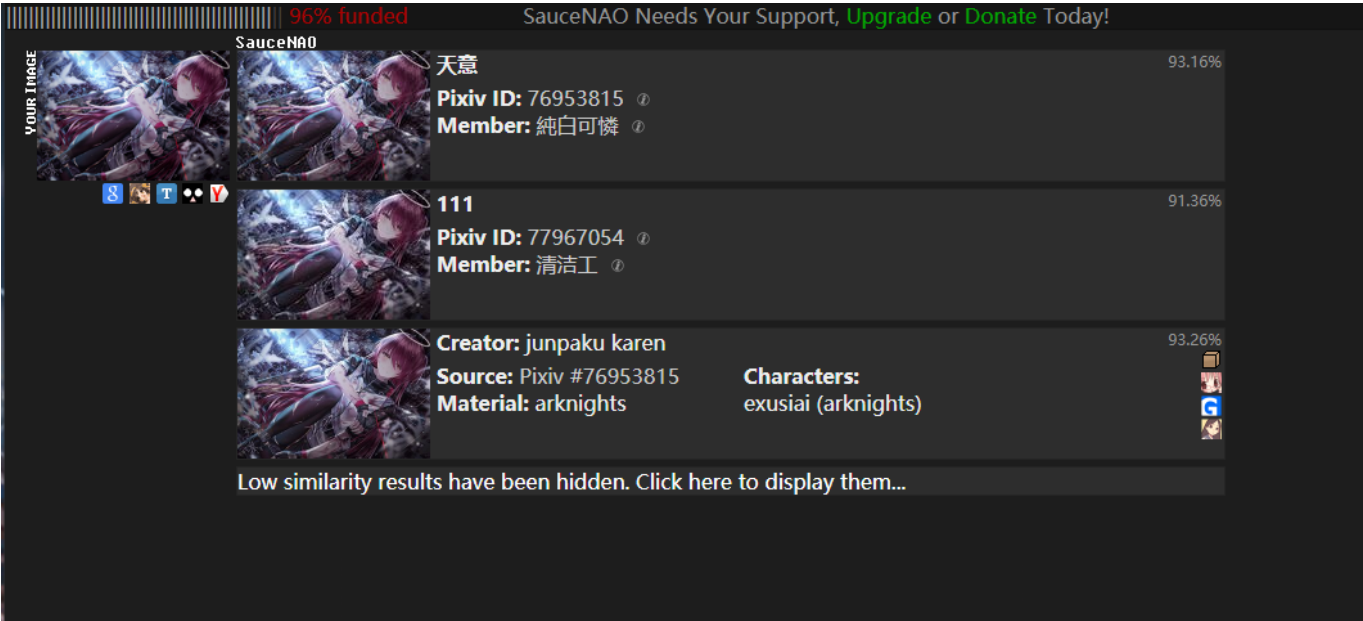


壁纸

这题依旧的坑，解压打开发现只有一张图片(不过还挺好看的)
依旧先找百度，找到了点线索，想到了当初暑假那个游戏里的一题就是图种
改成zip先解压试试，发现尼玛需要密码，不过可以看到里面有个flag文件，先看了下之前的压缩包名字secret，然后试了下后面那串字母，然而失败了，再仔细看看发现了端倪。



那么图片id是啥呢，想到之前图片是p站的，先试了下画师的id，不行，看来真的是图本身的id，但我不会科学上网（虽然手机上的vpn勉强能用），怎么上p站呢，百度一下，找到了一个可以搜索p站图片的网站。



试了一下哈哈成功了，然后打开一看，又尼玛是密码。。。百度了一下\u一般是unicode，然后找了一个unicode16进制转字符串工具，不过当时找的那个不大好，一定要补足四位，现在找了个能直接转的

加密或解密字符串长度不可以超过10M

16进制转字符 字符转16进制 清空结果

108

hgame{Do_y0u_KnOW_uNiC0d3?}

你没有看错，就是上面用过的那个，貌似多种格式的都可以，先用着看看。

签到题ProPlus

首先解压，发现还有个压缩包，但要密码，看了下另外一个txt，百度了一下fences和caeser发现是栅栏和凯撒，刚好有个栅栏密码和凯撒密码，然后，用第一句话试了一下，根据提示，试了下3字一组的栅栏密码和位移五次的凯撒密码，成功得到了一句英文，然后将第二段的进行同样的操作就得到了压缩包密码。

IFARZGFVMVRAIULY

位移 5

加密

解密

EAVMUBAQHQMVDPDT

然后看了下那个OK。。。

醉了，是ook密码，然后继续解码，然后是base32。。貌似有点长，没找到能解码的工具，迫不得已还是python解吧。

```
import base64
```

```
decode=base64.b32decode(b'NFLEET2S04YEW3HN5AUCQKBZJZJK2CFKVTUCQKBKFIUCQKBIVCUGQKZ  
IFAUCRCPINCW6S2BIFAU6V2VNRCVCVSSGRXE6MTBKM3DIRK0053UIMZPGB3DOV3ZINJV00CHMNCTQ33LMJ  
FXEQKPHBQSW3CBKNLC6MRTIFAUIKZVMM4WIQKBIRVWOQ2FIF3UCY2NIFIUCK2ZIFTUCOCBIZCECSKBKBDU  
CSKBMZGUCUKBJ5AUI2DHIFAUQN2ZJU2GKL3WNIXWINBQM5CTANJZOZHG2YLYLJQW6L2KMIYXGM3YJMYFIV  
RWK52G25LNMFGMYKZF5GFUMKRHF3TMY2WL BQXC4DNOVLV04KQPFLTSYSOHBXJIRJRMVWHEWTSOBWXCWBS  
NVIHSMTEKVIIGGT3OIZLDE4LRLJZGY3DRNI4GY5SXPJTEK4SSJZMHAYJSME3FU4LMHFYGUODUNZLEIM2EOB  
4FMZDROFWWCNK2MFXS6STCGFZTG6CLGBKFMNSXORWXK3LB0BTGCWJPJRNDCUJZ043GGVSYMFYXA3LVK5LX  
CUDZK44WETRYKN2EKMLFNRZFU4TQNVVYVQMTNKB4TEZCWJ5FU66BRNRXHON20JRAXGVLVOR5HGTCJMJ3XMN  
LNFNVUE2SDFM3XC3LHPFCVKTLOGBUE2WKUGNSFKMCIKF4WQ2ZLNFGSQ2PF5ZG2ZZWI5KU22RQNBRCVUJT  
ORRTCSCRPFUGWT3LJRUVGRZYOIZHGNSHIVEWQMDYMNJVC3IMYYTGULXNBCUW3KMPFJU00CMGZ2TMV2BJF  
UFK6DGKNAXU2DGKYZVIR2XHBEXCULUGBIXAOCPPJLEU6BXKVRDGRCPKI4WI2LEJZDGMKFKBUDEYLMVGG  
C2TFRNHSUDWONKHA33RG5AWYOKPNJJJEY6DCKVRDGVCPKE4TS3LEJZDFQWKFF5YDAYKKMFWC6TFGZNHSR  
DWON5HI4DROJAW40KPNZIUYSYLBGR4VCQKFHDK3TEHFFKWKVF5XTANSGLJFXCN3EGZFDMTWJUXK4CL  
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GR4VM4SKNV2DO6TUMVJUJ5LKMJUJA42YMJVEWV2NNRQTGYSMGI2TO3RZOBTHOQ3TMN3WYYSVGUVW4VDQIF  
TCWQTVNNKWSDXINDUCTRZIEZVGS2TIR3UERDHI4VWOYTIJBFEENCBNB3UIZCROQ2GU22BHBAVCNCCOVXV
```

OMCUPFAVOQKJHBATGVKMKNGDKQKEIFCSWQLCOFDHARRYIFBGOQ3GIFHDC2JQM4VUCQLXIJ3HISBLOAVUUM
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IN3FKOLMLBMTIK3MMJKTWKLJLB3GI5TFMVZFSVLIGJIHIVJROVMG6VJRNVRRESMLCPFRG4ZTWGJLG6WLHOI
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HFDEEY3FNZKDGMCCKGFIG4VCOKZZTOVLXNBFDSKYKRJVQSDUGA4WIT3EKQ2TA6SWMJBTATJUKNSFGRRYGJ
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JYKF3XSR3VLE2WQS2IJRKTOKGMZMGY5TRGIVTO6CCIREWKNDKNVCXY3EKRWTARRZMRLSW4TCG53E2R2N
KJ5GST3PMFYHQRSHMJITGOJRMJQWY5TVHA4GE6CIINETM6DJNVCWWZDUIR3DGVUTUMFLSWN2UGRSDI4LBKN
SWOVDRFNUDANLVGJHXA5KVKV5EIT2FIJUG4RCXMNUXKNKSKRGU2NCRI5DWGTS2PFFT03CGJV3XU2CBLFNH
OMLOJFZHKKVPJCE6RKCNCBIEIV3DNF2TKUSUJVGTIUKHI5RU4WTZJM3WYRSN055GQQZLJ3TC3SJOJ2VKV
L2IRHUKQTINZCF0Y3JOJ2VEVCNJU2FCR2HMNHFU6KLG5WEMTLXPJUECWK204YW4SLSOVKVO6TENNHFCTDN
GN4WG2LUPJYXK5BTMFFHIYLG5FG2M3GOF3GQU2HQU4WC3SNOFQTOZTPK4YXCL3DNVQWIZLVF5DG6WSRGF
YW6GLQG5YCW2BXMFDYSU3EOIYXCMZPK5UGQQ2XLIXUW3SPOI3EQZDRNUYXAK3TK5RGMK3BGJCUSWSYGBYW
GNTSOJSDE2LCK5XCW6K2OQZTM4RUKVUGYUCXOB5EW3LVGM3EM5DBOYZUU3LOLBZHM6DBI5KU4YLOJVVWKN
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BSOMZXQ5TGLJXFIOUSWK5EFOZTZMJTU6ZLGKNUDGT5KNZSDSSSVLFSFMOKKOVGTMNKOI5EGG23VMYZVK3CU


```
gkknVNj1n6p5hCEMGlUyqtsk5U/cMQxgyqGRStU30mbpnGMKQQSWTqm1yztQ9wxCGDCqZVG2Tc6buGYYWz
FDJpGqbnDN1zzCEIYNKJlXb5Jype3aNIThQ9pm83A6kSxt8xEowBDMYQh0YwnswBDMYQh0YwnswBDMYQh0
YwnswBDMYQh0YwnswBDMYQh0YwnswBDMYQh0YwnswBDMYQh0YwnswBDMYQh0YwntiDUHZgDLWCcdpGXpoz
h00VWKZU3cDyli78RxDt17a1JwnaKvEMqfuBpSxdU5hp68tKk5T9BWiwV03Q0oY+3Gcww9eWlTc56grRL
LnLobUMBajecYevLSpuY8QVs1lj1N6CMtRvPMfTkpu3NeYK2Sixz6m5AGWs3nmPoyUubmvMEbZVY5tTdg
DLWbjzH0J0XNjXnCdoqscypuWFlrN14jqEnL21qzh00VWKZU3cDyli78RxDt17a1JwnaKvEMid1Yd1NnpB
TyXTNlMgPRaxH6p5hCEMGlZ3ToZkS+aGI9UjdMwxhyKC6czo0UyI/FLeeqXuGIQwZVHd0h2ZK5Ici1iN1z
zCEIYPqzunQTIn8UMR6p04ZhjBkUN05HZopkR+KWI/UPcMQhgyq06dDMYxyQxHrkbpnGMKQQXXndGimRH4
oYj1S9wxDGDk07pw0zZTID0WsR+qeYQHDBtWd06GZEvMhiPVI3bP2X5dPE02GnMn1d9e1W9sROaXBMIRjc
ibXf81xYggYQkr05PqvOU4MAUNIyZlc/zXHISFgCCK5k+u/5jgxBAwhJWdy/dccJ4aAIAtkTK7/muPEEDC
ElJzJ9V9znBgChpCSM7n+a44z1RCmD8rxHPUn5+yu64SZ08AQhizH9JzddZ0wcwcYwpDlmJ6zu64TZu4AQ
xiyHNNzdt1d1swdYAhDlmN6zu66Tpi5AwxyHJMz9ld1wkzd4AhDFm06Tm76zph5g4whCHLMT1nd10nzNw
BhjBk0abn7K7rhJk7wBCGLMf0nN1nTBzB56sF8Ci/Vbb5PpT63q1Q4W1Xg2G8Fttk+tPrQtDCABD+K22y
fWn1oUhBIAh/Fbb5PpT68IQAsAQfqtctcv2pdWEIAWAIv9U2uf7UujCEADCE32qbXH9qXRhCABjCb7VNrj+
1LgwhAAzht9om159a19wQlMM84XVr5sBRm0N/dW2pb7vPG8Rwi0sYphJHbQ791bWlvu0+bxDDIa5jmEoct
Tn0V9eW+rb7vEEMh7iOYSpX10bQX11b6tvu8wYxH0I6hqnEUZtDf3VtqW+7zxvEcIjrGKYSR200/dW1pb7
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ximEkdtDv3VtaW+7T4d4qaSegTq+h05u20puUzD0EBhndWciU5RTMM4QGgCNzyK7lFMwzhAYZw1nIruUU
zD0EBhndWciU5RTMM4QGgCNzyK7lFMwzhAYZw1nIruUUzD0EBhndWciU5RTMM4QGgCNzyK7lFMwzhAYZw1
nIruUWzdkNQLm3ycitzqut3aJtaf7Jm3fqvhSGU9anMqa7foW1q/cmadeu/FoZQ1qcyp7p+h7ap9Sdr1q3
/WhhCWZ/KnOr6Hdqm1p+sWbf+a2EIZX0qc6rrd2ibWn+yZt36r4Uh1PWpzKmu36Ftav3JmnXrvxaGUNanM
qe6foe2qfUna9at/1oYQlmfypzq+h3aptafrFm3/mthCGV9KnOq63dom1p/smbd+q+FiDnWkKeeYOMAT
6HPeUJM/cAYZAn+OekuSZ08AQ6HPcU5I8cwcYAn20e0qSZ+4AQ6DPcU9J8swdYAj00e4pSZ65AWyBPsc9J
ckzd4Ah00e4pyR55g4wBPoc95Qkz9wBh1DUZzLug+6Yp2s3xvfZnTRVWHWfybgOefSh3Njnd9JUydv9JuM
65NGHckuf3U1ThVX3mYzrkEcfyi19didNFVbdZzKuQx59KLf02Z00Vvh1n8m4Dnn0odzSZ3fSVGHVfSbj0
uTRh3JLn91JU4VV95mM65BHH8otfXYnTRVW3WcyrkMefSi39NmdNFVYdZ/JuA559KHc0qcjaSqpg3IfYNr
r1n+XE+4EQ3iQupDuA0x73frvcsKdYAgPUhfSfYBpr1v/XU64EwzhQepCug8w7XXrv8sJd4IhPEhdSPcBp
r1u/Xc54U4whAepC+k+wLTxrF8uJ9wJhvAgdSHdB5j2uvXf5YQ7wRAepC6k+wDTXrf+u5xwJxjCg9SfDB9
g2uvWf5cT7kRqCLc8pWZKunt01ebo85qc3Ywd8JSaKXEskKM2R5/X50wu7ISn1EyJY4EctTn6vCZnd2EnP
KVmShwL5KjN0ec10bsLO+EpNVPiWCBHbY4+r8nZXdgJT6mZEscCOWpz9H1Nzu7CTnhKzZQ4FshRm6PPa3J
2F3bCU2qmxLFAjtocfV6Ts7uwE55SMYw0BXLU5ujzmpzdhZ3w1JopcSyQozZHn9fk3P4SAI4HQwCADxgCA
HzAEADgA4YAAB8wBAD4gCEAwAcMAQA+YAgA8AFDAIAP/wAFo0hUZrh1mAAAAABJRu5ErkJggg==')
file = open('decode.png', 'wb')
file.write(img)
file.close()
```

不过现在发现base64其实直接就可以用html在网页中显示

```
<img width="260" height="260"
src="data:png;base64,iVBORw0KGgoAAAANSUUEGAAAQAAAECAyAAADOCeOAAAAOWU1EQVR4nO2aS
64ENwwD3/0v7WyCSW8GcE8okbKrAO8a+1ASV/23AAD+5c9dAADkgCEAwAcMAQA+YAgA8AFDAIAPGAIAfMA
QA0ADhgAAH7YM4e/vj/d40gE059vNmaxZao/Jb1s3xK0TV6WtmumapfaY/LZ1Q9w6cVXaqpmuWWqPyW9bN
8StE1elrZrpmqX2mPy2dUPcOnFV2qqZr1lqj8lvWzfErRNxpa2a6Zq19pj8tnVD3DpxVdqqma5Zao/Jb1s
3xK0TV6WtmumapfaY/LZ1Q9w6cVXaqpmuWWqPyW9bN8StE1elrZrpmqX2mPy2dVOK0x1lnw7NLAsUutzsL
Ibwv5m+kBjC+7qmgYEUmN0hMYT3dU0HQyhk+kJiCO/rmg6GUMj0hcQQ3tc1HQyhk0kLiSG8r2s6GEIh0xc
SQ3hf13QwhEkMLySG8L6u6WAIhUxfSAzhfV3TGW8IqQt0Qp80zVJx7Ub3DOR9didNFfaEPH2apeLaje4Zy
PvsTpoq7A190jRLxbUb3TOQ99mdNFXYE/p0aJaKaze6ZyDvsztpqrAn90nQLBXXbnTPQN5nd9JUyU/o06F
ZKq7d6J6BvM/upKnCntCnQ7NUXLvRPQN5n91JU4U9oU+HZqm4dqN7BvI+u50mCntCnw7NUnHtRvcM5H12J
00V9oQ+HZq14tqN7hnI++xOmqsuk91ztRFc2imrF8dL3V02312J00VVt2n0mfqojk0U9avjpc6p+0+u50
mCqvU50zddEcminrv8dLndN2n91JU4VV96n0mbpoDs2U9avjpc5pu8/upKnCqvU50xdNIdmyvrV8VLnt
N1nd9JUydv9qnOmLppDM2X96nipc9rusztpqrDqPtU5UxfNoZmyfnW81D1t99mdNFVYdZ/qnKml5tBMWb8
6XuqctvvsTpoqrLpPdc7URXNopqxHFS91Ttt9didNFVbdpzpn6qI5NFPWr46X0qftPruTpgrr6vMWxh9K6
```


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然后得到了一张二维码



扫了一下就得到了flag `hgame{3Nc0dInG_@1L_iN_0Ne!}`