

# HGAME 2021 Week3 Writeup

## MISC

### ARK

附件是流量包，按数据长度排序后发现了几个 `FTP-DATA` 型，以及后面的“`ssl.log`”可以判断出是追踪流得到 `ssl.log` 解密https

|                  |               |               |           |  |
|------------------|---------------|---------------|-----------|--|
| 288 16.798988072 | 192.168.2.128 | 172.67.148.67 | TLSv1.3   | 4040 Application Data  |
| 293 17.775456814 | 172.67.148.67 | 192.168.2.128 | TLSv1.3   | 2974 Application Data, Application Data, Application Data              |
| 34 5.692192764   | 172.67.148.67 | 192.168.2.128 | TLSv1.3   | 2974 Application Data, Application Data                                |
| 380 40.162514373 | 192.168.2.128 | 192.168.2.129 | FTP-DA... | 2962 FTP Data: 2896 bytes (PASV) (STOR /Users/Akira/Downloads/ssl.log) |
| 379 40.162444973 | 192.168.2.128 | 192.168.2.129 | FTP-DA... | 2962 FTP Data: 2896 bytes (PASV) (STOR /Users/Akira/Downloads/ssl.log) |
| 383 40.162663856 | 192.168.2.128 | 192.168.2.129 | FTP-DA... | 2716 FTP Data: 2650 bytes (PASV) (STOR /Users/Akira/Downloads/ssl.log) |



解密后可以导出http

|                        |                 |          |       |
|------------------------|-----------------|----------|-------|
| announcement.meta.json | 2021/2/14 14:20 | JSON 源文件 | 3 KB  |
| battleFinish           | 2021/2/14 14:20 | 文件       | 4 KB  |
| battleFinish(2)        | 2021/2/14 14:20 | 文件       | 5 KB  |
| battleStart            | 2021/2/14 14:20 | 文件       | 1 KB  |
| battleStart(2)         | 2021/2/14 14:20 | 文件       | 1 KB  |
| checkIn                | 2021/2/14 14:20 | 文件       | 1 KB  |
| checkIn(2)             | 2021/2/14 14:20 | 文件       | 1 KB  |
| getBattleReplay        | 2021/2/14 14:20 | 文件       | 1 KB  |
| getBattleReplay(2)     | 2021/2/14 14:20 | 文件       | 14 KB |
| getChainLogInReward    | 2021/2/14 14:20 | 文件       | 1 KB  |
| getChainLogInReward(2) | 2021/2/14 14:20 | 文件       | 1 KB  |
| getReward              | 2021/2/14 14:20 | 文件       | 1 KB  |
| getReward(2)           | 2021/2/14 14:20 | 文件       | 1 KB  |
| login                  | 2021/2/14 14:20 | 文件       | 1 KB  |
| login(2)               | 2021/2/14 14:20 | 文件       | 76 KB |
| tenAdvancedGacha       | 2021/2/14 14:20 | 文件       | 1 KB  |
| tenAdvancedGacha(2)    | 2021/2/14 14:20 | 文件       | 4 KB  |

查看了下虽然不懂json之类的但查看文件内容后能看出是“明日方舟”相关，流量包中暂时找不到其他线索，从这些文件中入手，比较让人注意的是 `getBattleReplay(2)` 这个文件，根据里面的一堆base64数据和文件名“战斗回放”，flag应该是藏在战斗记录中

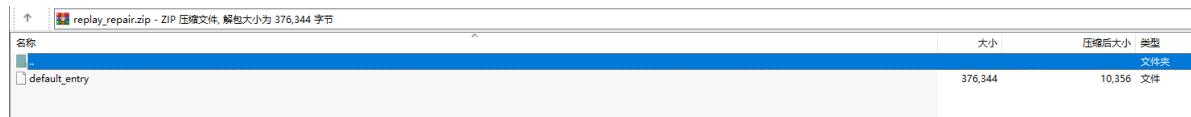
啊体力忘记清了（皮一下很开心



将base64复制进010editor中可以直接查看十六进制数据

| 0   | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  | 0123456789ABCDEF     |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|
| 0h: | 50 | 4B | 05 | 06 | 14 | 00 | 00 | 00 | 08 | 00 | B7 | 62 | 4B | 52 | A2 | DB PK.....bKR¢Ù      |
| 0h: | 61 | 82 | 74 | 28 | 00 | 00 | 18 | BE | 05 | 00 | 0D | 00 | 00 | 00 | 64 | 65 a,t(...¤.....de   |
| 0h: | 66 | 61 | 75 | 6C | 74 | 5F | 65 | 6E | 74 | 72 | 79 | C4 | 9D | 4D | AB | D3 fault_entryÃ.M»Ó  |
| 0h: | 40 | 14 | 40 | FF | 4B | DC | 46 | 9D | B9 | 77 | 32 | 1F | EE | 54 | 5C | 88 @.@yKÜF.^w2.iT\^  |
| 0h: | 82 | 22 | E2 | 42 | 11 | 09 | 36 | 6A | 34 | 4D | B5 | 49 | 9F | 8A | F8 | DF , "âB..6j4MµIÝšøß |
| 0h: | 9D | E6 | D6 | 2F | 74 | 7F | C0 | 45 | 5F | BF | CE | 6B | 6D | A6 | 37 | E7 .æÖ/t.ÀE_çÎkm;7ç  |
| 0h: | 30 | BC | 6F | CD | EB | 7E | FF | B1 | 1F | DF | CE | 8F | E6 | E9 | EB | B3 04oÍë~ý†.ßÍ.æéé,  |

熟悉的文件头，不过应该被修改过了 50 4B 05 06 应该是zip文件尾的格式，文件头修改为 50 4B 03 04 后保存为zip，解压得到default\_entry文件

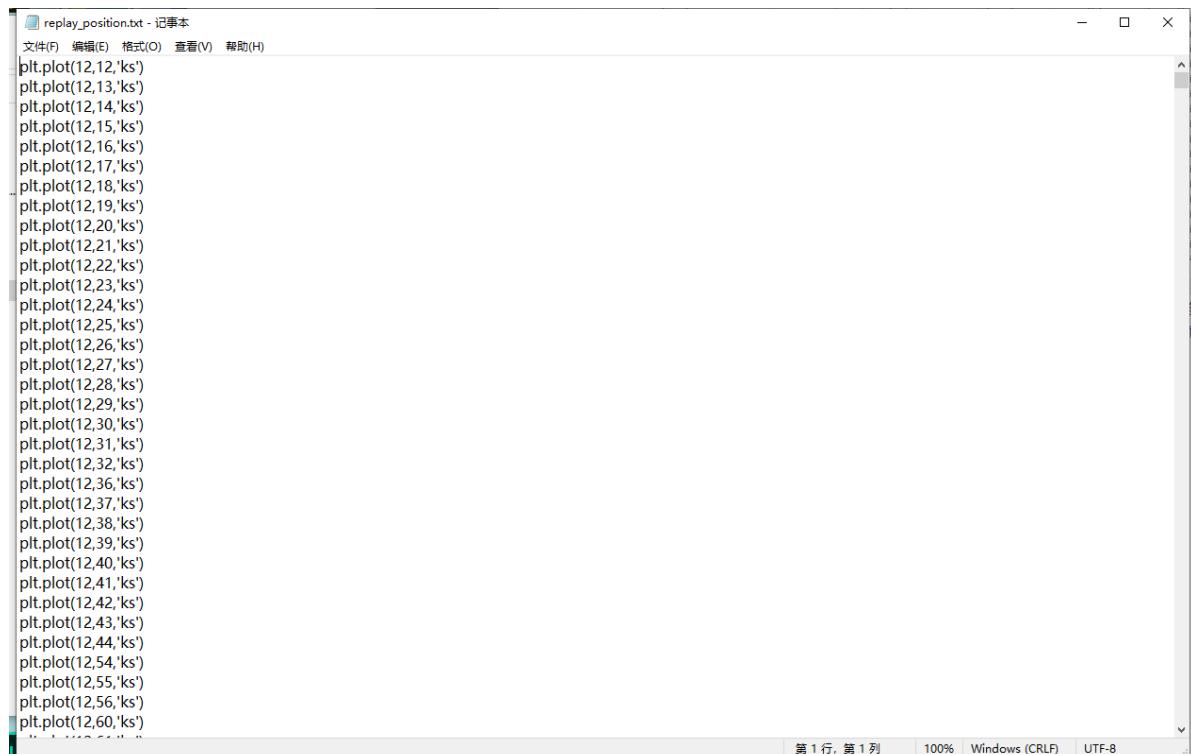


打开后得到一堆数据，稍微整理了下

```
{"campaignOnlyVersion":1,"timestamp":"1612849000","journal":{"metadata": {"standardPlayTime":272.999725,"gameResult":1,"saveTime":"2021-02-09T13:36:36.552186Z","remainingCost":99,"remainingLifePoint":3,"killedEnemiesCnt":57,"missedEnemiesCnt":0,"levelId":"Activitie s/act16d5/level_act16d5_10","stageld":"act16d5_10","validKilledEnemiesCnt":57,"squad": [{"charInstId":8,"skillId":"char_2015_dusk#1","tmpId":null,"skillId":"skchr_dusk_1","skillIndex":0,"skillLvl":1,"level":1,"phase":0,"potentialRank":0,"favorBattlePhase":38,"isAssistChar":true}], "logs":[{"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":12}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":13}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":14}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":15}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":16}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":17}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":18}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":19}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":20}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":21}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":22}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":23}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":24}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":25}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":26}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":27}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":28}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":29}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":30}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":31}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":32}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":33}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":34}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":35}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":36}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":37}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":38}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":39}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":40}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":41}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":42}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":43}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":44}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":45}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":46}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":47}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":48}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":49}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":50}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":51}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":52}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":53}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":54}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":55}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":56}}, {"timestamp":0,"signature": {"uniqueId":2147483815,"charId":"char_2015_dusk"}, "op":0,"direction":1,"pos":{"row":12,"col":57}}]
```

本来以为只是把flag藏在战斗记录中，但也没啥发现，但其中非常有规律的 "pos" :

{ "row": 12, "col": 12 } 这样的内容值得注意，应该是干员部署位置信息，括号内为坐标，但舟游地图就这么点大，没那么多位置，怀疑是可以根据这些坐标画图可以得到像素点阵组成的flag图片或者二维码之类的。感觉工程量挺大，尝试了些其他可能性无果只能回到这个脑洞。将多余的信息替换删除后，改写成具体坐标后编写脚本画图



```
replay_position.txt - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
plt.plot(12,12,'ks')
plt.plot(12,13,'ks')
plt.plot(12,14,'ks')
plt.plot(12,15,'ks')
plt.plot(12,16,'ks')
plt.plot(12,17,'ks')
plt.plot(12,18,'ks')
plt.plot(12,19,'ks')
plt.plot(12,20,'ks')
plt.plot(12,21,'ks')
plt.plot(12,22,'ks')
plt.plot(12,23,'ks')
plt.plot(12,24,'ks')
plt.plot(12,25,'ks')
plt.plot(12,26,'ks')
plt.plot(12,27,'ks')
plt.plot(12,28,'ks')
plt.plot(12,29,'ks')
plt.plot(12,30,'ks')
plt.plot(12,31,'ks')
plt.plot(12,32,'ks')
plt.plot(12,33,'ks')
plt.plot(12,34,'ks')
plt.plot(12,35,'ks')
plt.plot(12,36,'ks')
plt.plot(12,37,'ks')
plt.plot(12,38,'ks')
plt.plot(12,39,'ks')
plt.plot(12,40,'ks')
plt.plot(12,41,'ks')
plt.plot(12,42,'ks')
plt.plot(12,43,'ks')
plt.plot(12,44,'ks')
plt.plot(12,45,'ks')
plt.plot(12,46,'ks')
plt.plot(12,47,'ks')
plt.plot(12,48,'ks')
plt.plot(12,49,'ks')
plt.plot(12,50,'ks')
plt.plot(12,51,'ks')
plt.plot(12,52,'ks')
plt.plot(12,53,'ks')
plt.plot(12,54,'ks')
plt.plot(12,55,'ks')
plt.plot(12,56,'ks')
plt.plot(12,57,'ks')
```

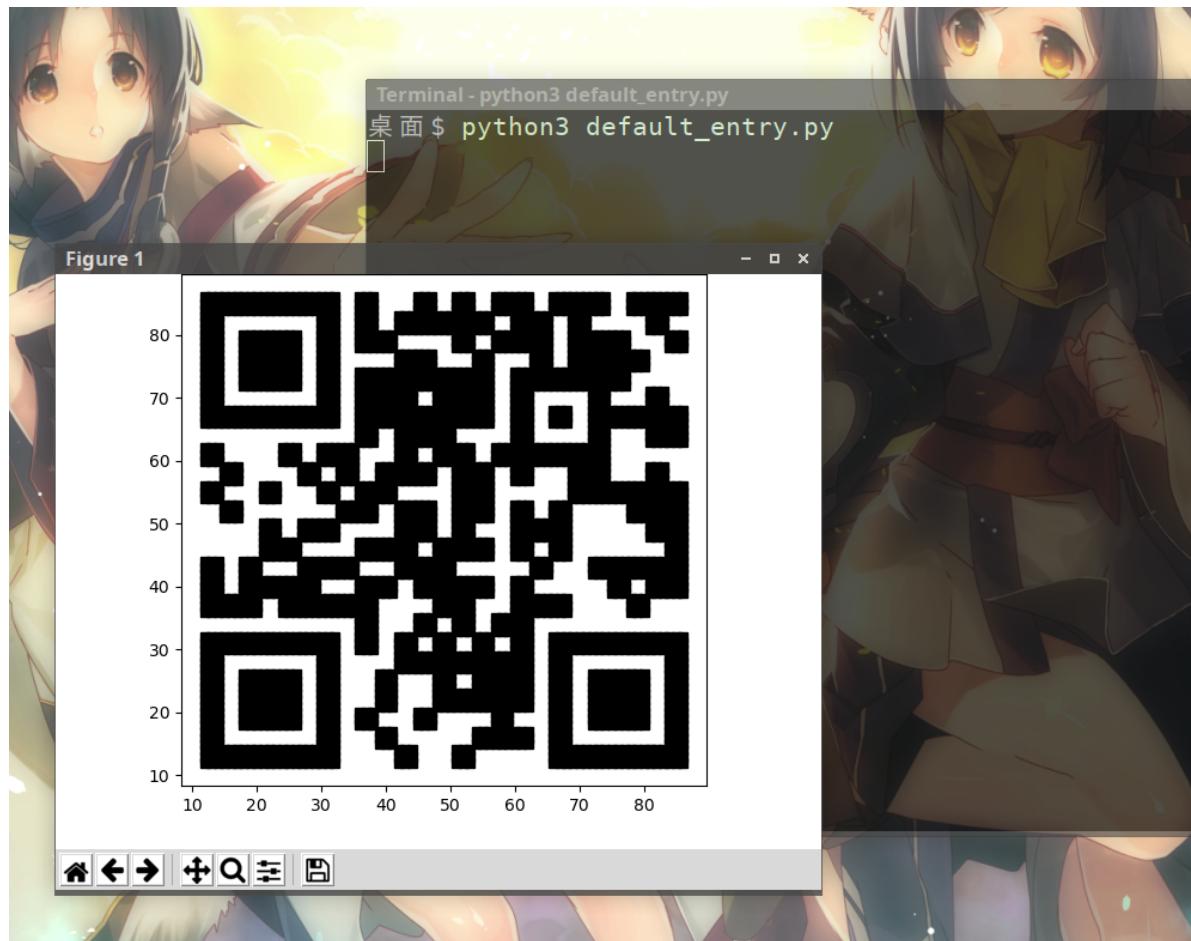
```
from matplotlib import pyplot as plt
import numpy as np
```

```
plt.plot(12,12,'ks')
plt.plot(12,13,'ks')
plt.plot(12,14,'ks')
plt.plot(12,15,'ks')
plt.plot(12,16,'ks')

.....
plt.plot(86,78,'ks')
plt.plot(86,79,'ks')
plt.plot(86,80,'ks')
plt.plot(86,84,'ks')
plt.plot(86,85,'ks')
plt.plot(86,86,'ks')

plt.show()
```

得到二维码



扫码得到flag: hgame{Did\_y0u\_ge7\_Dusk?}

打开后得到一张图片一个压缩包和字体提示，根据hint由BV号是 base58 经一定方式加密av号后得到可以知道图中字符串是经过 base85 加密过的，刚开始用word会自动修正符号没注意，改正后拿去解密得到table

## Your Encoded ASCII85 / Base85 text

### Input

BK0ICG]Qr\*88\_ \$gC, '-j2+KH86?Q%"%928;LG@O\*!Am0+`;E7IV2agSE<c'U;6Yg^#H?IYBAQ]

Load URL

 BROWSE

DECODE

## Decoded ASCII85 / Base85 text



### Output

h8btwsWpHnJEj1aL5G3gBuMTKNPAwcF4fZodR9XQ7DSUVm2yCkr6zqiveY

网上找到知乎关于BV号原帖得到脚本替换table加密压缩包名的 10001540 得到压缩包密码

```
table='h8btwsWpHnJEj1aL5G3gBuMTKNPAwcF4fZodR9XQ7DSUVm2yCkr6zqiveY'
tr={}
for i in range(58):
    tr[table[i]]=i
s=[11, 10, 3, 8, 4, 6]
xor=177451812
add=8728348608

def dec(x):
    r=0
    for i in range(6):
        r+=tr[x[s[i]]]*58**i
    return (r-add)^xor

def enc(x):
    x=(x^xor)+add
    r=list('BV1 4 1 7  ')
    for i in range(6):
        r[s[i]]=table[x//58**i%58]
    return ''.join(r)

print(enc(10001540))
```

```
PS C:\Users\zzy02\Desktop> python3 decode.py  
BV17f411J77h  
PS C:\Users\zzy02\Desktop>
```

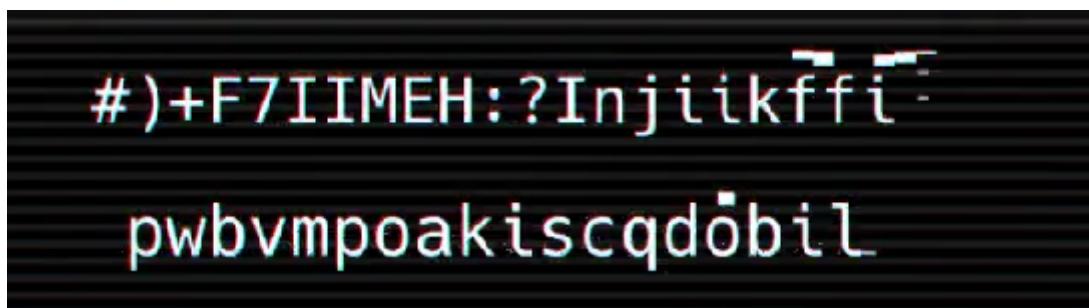
解压后得到一段视频和一个txt，打开txt后发现是被加密了的一段文字，看了下根据空格可以知道原本应该是段英文语句，在线的词频分析不支持特殊字符，尝试把特殊字符变为未出现过的字母后进行词频分析，知道了大概的原语句

```
a b c d e f g h i j k l m n o p q r s t u v w x y z←  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z←  
, < . > / ? ; : ‘ “ [ { } ] \ | - _ = + ! @ # $ % ^ & * ( ) ` ~ ←  
1 2 3 4 5 6 7 8 9 0 ←  
7 G 8 P 9 Q < R > S ? T ; U : V ←  
“ W } X = Y * Z ` c ←
```

```
zBGY TI DEJ SUHUC PKJ X MHTJU TJ PUQGKIU OEK CGO DUUV CEHU MEHVI JE GDGBOITI MSGJ UDQEVTDY JSU BTDUe Tib  
ZEH BTDUfc WTAT SGI JEBV OEK MSGJ TJ Tlc GDV uATHG TI DUQUIGHO JE VE Tjb  
ZME OEKDY YTHBI UNFBEHU G ISGJJUHUV MEHBVc RTBBUV MTJS IEKDVn G FGJ JE PU KDQELUHUVbbb  
yGQS GMGAUDI TD JSTI PBGDAc HKTDaVEJJUV MEHBV JE VTIQELUH JSGJ ISU TI UGKGBBO PBGDAc HUCUCPUHTDY DEJSTDY ER  
MSGJ QGCU PUREHub  
uDv JSUD JSUO CGAU G IUQEDV VTIQELUHOn JSU uHQGUGc CKBJTJKVUI ER RBEGJTDY YBGllaBTau ISGHVI QEDJGTDTDY LTlTV  
CUCEHTUI ER JSU FGJb
```

```
zLAG IS NOT HEREm BUT Q WRITE IT BECAUSE YOU MAY NEED MORE WORDS TO ANALYSIS WHAT ENCODING THE LINEo ISI zOR  
LINEpm JIKI HAS TOLD YOU WHAT IT ISm AND eKIRA IS NECESSARY TO DO ITI ZWO YOUNG GIRLS EXPLORE A SHATTERED WORLDm  
FILLED WITH SOUNDx A PAST TO BE UNCOVEREDIII gACH AWAKENS IN THIS BLANKm RUINKDOTTED WORLD TO DISCOVER THAT  
SHE IS EAULLY BLANKm REMEMBERING NOTHING OF WHAT CAME BEFOREI eND THEN THEY MAKE A SECOND DISCOVERYx THE  
eRCAEAml MULTITUDES OF FLOATING GLASSLIKE SHARDS CONTAINING VIVID MEMORIES OF THE PASTI
```

没找到特别关键的信息，词频分析也并非完全正确，想起来还有个段视频，视频中提问：`what is the answer to live, universe and everything?`，以及最后有段应该包含关键信息的字符串，根据替换关系可以知道其中藏了视频解密的密码



谷歌了下这个问题给出了答案：42，但此时还是觉得有点懵，没办法只好自己对着翻译了下，找出来大部分大写字母，小写字母和特殊符号对应关系，根据词语位置以及视频中还有的一句话也能猜出剩余大概，但还有小写的a,e,f不清楚，

文件(F) 编辑(E)

a\_\_\_\_\_  
b\_\_\_\_\_.  
e\_\_\_\_\_  
f\_\_\_\_\_  
n\_\_\_\_\_;  
u\_\_\_\_\_A  
y\_\_\_\_\_E  
z\_\_\_\_\_F  
A\_\_\_\_\_k  
B\_\_\_\_\_l  
C\_\_\_\_\_m  
D\_\_\_\_\_n  
E\_\_\_\_\_o  
F\_\_\_\_\_p  
H\_\_\_\_\_r  
I\_\_\_\_\_s  
J\_\_\_\_\_t  
K\_\_\_\_\_u  
L\_\_\_\_\_v  
M\_\_\_\_\_w  
N\_\_\_\_\_x  
O\_\_\_\_\_y  
7\_\_\_\_\_a  
8\_\_\_\_\_b  
9\_\_\_\_\_c  
<\_\_\_\_\_f  
>\_\_\_\_\_h  
?\_\_\_\_\_i  
:\_\_\_\_\_e  
;\_\_\_\_\_d  
"\_\_\_\_\_L  
}\_\_\_\_\_l  
=\_\_\_\_\_g  
\*\_\_\_\_\_T  
`\_\_\_\_\_ -

Flag is not here-but I write it because you may need more words to analysis what encoding the line(e) is.  
For line(f)-Liki has told you what it is-and Akira is necessary to do it.  
Two young girls explore a shattered world-filled with sound: a past to be uncovered...  
Each awakens in this blank-ruin(a)dotted world to discover that she is eaually blank-remembering nothing of what came before.  
And then they make a second discovery: the Arcaeae-multitudes of floating glass(a)like shards containing vivid memories of the past.

根据第二句话以及hint想了想crypto第一周第一题相关密码，尝试过程中发现把原句用凯撒ROT10也能得到大写字母的对应关系，以为小写字母也是经过一定凯撒关系得到，尝试了一段时间后回想起42可能是加密移位数，但字母只有26个，突然想到是ascii表可打印字符的凯撒密码，尝试后发现完全正确

Flag is not here-but I write it because you may need more words to analysis what encoding the line1 is.  
For line2-Liki has told you what it is-and Akira is necessary to do it.  
Two young girls explore a shattered world-filled with sound: a past to be uncovered...  
Each awakens in this blank-ruin-dotted world to discover that she is eaually blank-remembering nothing of what came before.  
And then they make a second discovery: the Arcaeae-multitudes of floating glass-like shards containing vivid memories of the past.

才知道视频中字符串分两行是有目的的，第一行是和语句加密一样，第二行是第一周crypto相关，翻译后得到第一行

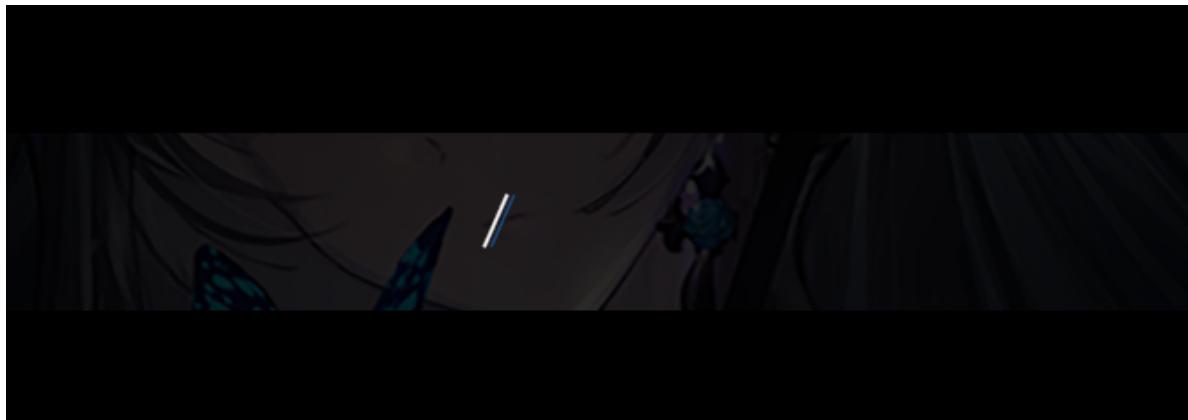
#)+F7IIIMEH:?Injiikffi  
pwbvmpoaikiscqdobil  
77 83 85 112 97 115 115 119 111 114 100 105 115 59 54 53 53 55 50 50|53

MSUpasswordis:6557225

之前也接触过 VirtualDub 的使用 MSU stego 插件和 FFInputDrive 插件的视频加密，经过解密后得到

arc.hgame2021.cf  
Hikari  
Tairitsu

看起来是个网址，进入后提示输入用户名和密码，将 Arcaea 两个角色名输入得到



根据hint看来是要在网址后面加点什么，应该就是字符串第二行解密后的东西，第一周第一题主要是 vigenère 密码尝试将第二行用此解密，密钥为出题人akira，得到 pmtempestissimobyd，输入

<https://arc.hgame2021.cf\pmtempestissimobyd>

得到flag： hgame{Y0u\_Find\_Pur3\_Mem0ry}

