

“东华杯”2021年大学生网络安全邀请赛 暨第七届上海市大学生网络安全大赛线上赛MISC-Writeup

原创

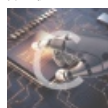
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246 篇文章 46 订阅

订阅专栏

文章目录

[checkin](#)

[project](#)

[JumpJumpTiger](#)

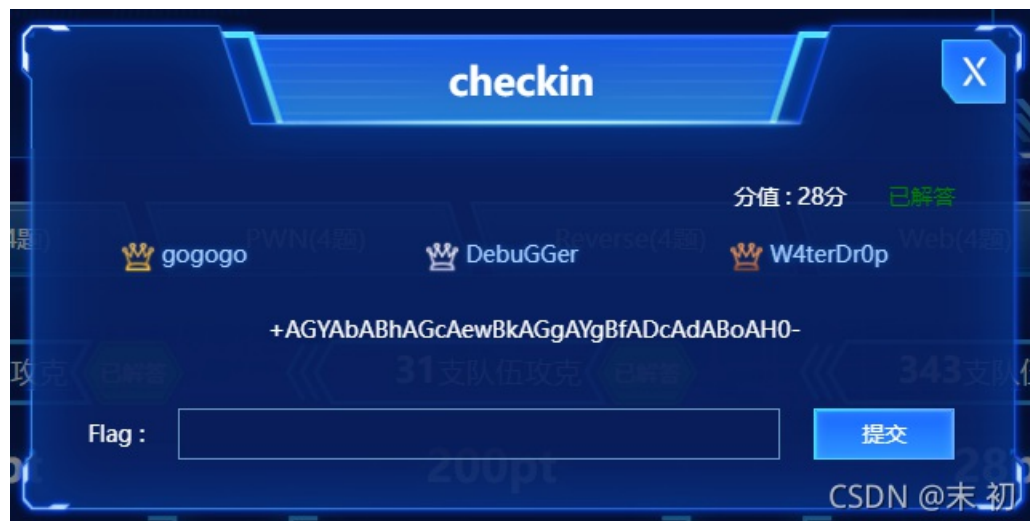
[where_can_find_code](#)

题目附件请自取:

链接: https://pan.baidu.com/s/1T9nG-CDg_D8QYQZapuxucg

提取码: 2wub

checkin



+AGYAbABhAGcAewBkAGgAYgBfADcAdABoAH0-

UTF-7 编码

- UTF-7在线解码站: <http://toolswebtop.com/text/process/decode/utf-7>

```
flag{dnh_7th}
```

project



```
PowerShell
kali-linux
root@mochu7-pc:~/ant/c/Users/Administrator/Downloads/Kingdemo3# ls
2811833188.al2  CONDUCT.CFG      IdName.Dat      pic00082.pic    pic00088.pic    pic00014.pic    pic00020.pic    PICMANAG.DAT    RDB
ALARM.CFG      customscript.cfg keyScrip.cfg    pic00083.pic    pic00089.pic    pic00015.pic    pic00021.pic    PROJECT.IMF     RptIds.Dat
APPSCRIP.CFG  DATACMAN.CFG    LOGTIME.DAT    pic00084.pic    pic00019.pic    pic00016.pic    pic00022.pic    Project.pro     RptRbNodes.tmp
a.Rtl          DBFlag.dat      Mainbase.ini    pic00085.pic    pic00011.pic    pic00017.pic    pic00023.pic    ProjManage.dat  Report1.rtf
BIND_DEF      Device.dat       OxIDs.Dat      pic00086.pic    pic00012.pic    pic00018.pic    pic00024.pic    R1.RTF          Report2.rtf
COMDEV.DAT    group.dat       pic00081.pic    pic00087.pic    pic00013.pic    pic00019.pic    pic00025.pic    R2.RTF          SQL帮助.rtf
root@mochu7-pc:~/ant/c/Users/Administrator/Downloads/Kingdemo3# file test.exe
test.exe: PE32 executable (console) Intel 80386, for MS Windows
root@mochu7-pc:~/ant/c/Users/Administrator/Downloads/Kingdemo3#
root@mochu7-pc:~/ant/c/Users/Administrator/Downloads/Kingdemo3#
root@mochu7-pc:~/ant/c/Users/Administrator/Downloads/Kingdemo3# binwalk test.exe

DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0             0x0          Microsoft executable, portable (PE)
149688       0x24868     CRC32 polynomial table, little-endian
153704       0x25868     CRC32 polynomial table, big endian
157984       0x26920     Copyright string: "Copyright 1995-2017 Mark Adler"
199872       0x30CC0     PNG image, 256 x 256, 8-bit/color RGBA, non-interlaced
199913       0x30CE9     Zlib compressed data, best compression
252028       0x3D87C     XML document, version: "1.0"
261120       0x3FC00     Zlib compressed data, best compression
261347       0x3FCE3     Zlib compressed data, best compression
262412       0x4010C     Zlib compressed data, best compression
266471       0x410E7     Zlib compressed data, best compression
272033       0x426A1     Zlib compressed data, best compression
273901       0x42C5D     Zlib compressed data, best compression
274332       0x42F9C     Zlib compressed data, best compression
275835       0x4325B     Zlib compressed data, best compression
275475       0x43413     Zlib compressed data, best compression
345779       0x546B3     End of Zip archive, footer length: 22
345902       0x5472E     Zlib compressed data, best compression
393243       0x6001B     Zlib compressed data, best compression
438942       0x6935E     Zlib compressed data, best compression
447320       0x6D358     Zlib compressed data, best compression
538397       0x818A5     Zlib compressed data, best compression
563160       0x83130     Zlib compressed data, best compression
608401       0x94891     Zlib compressed data, best compression
619647       0x9747F     Zlib compressed data, best compression
630719       0x99FBF     Zlib compressed data, best compression
641792       0x9CB00     Zlib compressed data, best compression
652920       0x9F678     Zlib compressed data, best compression
665145       0xA2639     Zlib compressed data, best compression
676242       0xA5192     Zlib compressed data, best compression
687077       0xA7076     Zlib compressed data, best compression
698574       0xA80CE     Zlib compressed data, best compression
709855       0xAD0DF     Zlib compressed data, best compression
721096       0xB08C8     Zlib compressed data, best compression
732445       0xB201D     Zlib compressed data, best compression
```

test.exe 附加了很多别的数据, 运行之后发现生成了一个 problem_bak.zip
解压 problem_bak.zip 得到一个邮件文件

```
C:\Users\Administrator\Downloads\Kingdemo3\你来了! - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
你来了!-
1 Date: Sun, 19 Sep 2021 21:28:55 +0800
2 From: "mklkxxx@yeah.net" <mklkxxx@yeah.net>
3 To: mklkxxx <mklkxxx@yeah.net>
4 Subject: =UTF-8?B?5L2g5p2l5LqGfg=?=
5 X-Priority: 3
6 X-Has-Attach: no
7 X-Mailer: Foxmail 7.2.20.273[cn]
8 Mime-Version: 1.0
9 Message-ID: <202109192128112273138@yeah.net>
10 Content-Type: multipart/related;
11 boundary="-----001_NextPart057850482324_-----"
12
13 This is a multi-part message in MIME format.
```

```
14 -----_001_NextPart957850482324_-----
15 Content-Type: multipart/alternative;
16 boundary="-----_002_NextPart832058858335_-----"
17
18
19 -----_002_NextPart832058858335_-----
20 Content-Type: text/plain;
21 charset="UTF-8"
22 Content-Transfer-Encoding: base64
23
24
25 6KGo50F5YyF5pah5YyM77yM5piv6zqP552A572R57uc565+5Lqk5nKf6YCa55qE5aKe5aSa5Ye6
26 546w55qE5LlA56eM5Li75rNB5pah5YyM44CC5LiA5Liql5Lq655qE6KGo5o0F5YyF5piv5Ym26zqQ
27 6Jep6LW3Sp2l55qE55yf5oIR77yM5LiA5Liql5Zu95a6255qE6KGo5o0F5YyF6YeM6I0955yL5Y1w
28 6L+Z5Li95Zu95a6255qE6KGo5o0F44CC4oCM4oCM4oCM4oCM4oCs4oCM5pyJ5pe25VCZ
29 77yM6KGo5o0F5YyF6KGo6L+55qE5piv5LiN6I096YGT56055qE5Yf5a6e5o025r0V5ZKM5o5F
30 5Y+X77yM6K+t6KlA5ZK5pah5a2X55qE5bc95a5077yM5bcx5piv6KGo5o0F5YyF5pa95b6V55qE
31 56m62e044CDQr0oaJmg4XlJDXmmK/nvZhnuzor63oqIDnm0lkuIDnp43ov5v1jJbvVzIroPn
32 m0tKuafn1j/lkozntYhooYzkuT7JHbnjbnlPrnmotIqzIgiZigIziIgiZigIziIgiZigI3vu77Igi33i
33 gI3n1j/lrZjnq/loOpig3mnInlhbPjgILlhbboV73meYlphLnm67jgIHmln0lpYfjgIHos3Do
34 sIHnYnmLYjanznmoTnInngnrvvIzigiZigiZigiZigiZigI3vu77IgiZigKkuI7lJbTovbk
35 urelv0MiazkukragKf1kozmkJ7mgKrnmoIv4PnkIbnm7jnrKbigIzigiZigiZigiZigiI3vu77I
36 giZigKzjgIINcuihq0aDheMhe55i+aJg057peIvDeWkn+Mkp+Img+Wbt0Wcs0S0a5re+8jOKA
37 jOKAJOKAJOKAJOKAJe+7v+KAROKAJeYr+Hbo054uuWftuW8peihpeS6huaW+HtL+S6p0a1geea
38 h0aer+eHpeW5j0aAgeW6puihq0i+vu54jehWuehreaH0W8seeCue+8j0aCieaVi0Wcs0aPk0mr
39 m0SGhuayn+mAmuaVi0e0h+0AgumDq0WIhuhQ0aDheMheWft+acieabv+S7o+amh+WtL+eah0Wk
40 n+Ivve+8jOKAJOKAJOKAJOKAJe+7v+KAJeKajeI/m0WPr+5peIkguecgeaJk+WtL+aXtumX
41 tOKAJOKAJOKAJOKAJe+7v+KAJOKAJ00Agumaj+ved0aZuuiDveaJ+acueeah0Wf0Qmdouaz
42 rumPiuSj0ekvuS6p0W6l0eUq0i9r+S7ueah0Wkp+eHtj+S9v+elq048j0ihq0aDheMheN3sue7
43 j+m+m0mikee0h+Wcs0Mhuue0s0Wcq056uu57r0eah0e9kee7n0iBiukqehvuuivneW9k+S4re0A
44 gg0K
45
46 -----_002_NextPart832058858335_-----
47 Content-Type: text/html;
48 charset="UTF-8"
49 Content-Transfer-Encoding: quoted-printable
```

复制出来Python简单处理或者直接使用在线站：<https://the-x.cn/zh-cn/base64/>

```
from base64 import *

with open('jpg_base64.txt', 'r') as f:
    lines = f.readlines()
    base64_data = ''
    with open('flag.jpg', 'wb') as f1:
        for line in lines:
            base64_data += line.strip()
        f1.write(b64decode(base64_data))
```



得到一张丑不拉几的图片，尝试了很多jpg隐写，最后发现是 OurSecret 隐写


```
=E8=A1=A8=E6=83=85=E5=8C=85=E5=B7=B2=E7=BB=8F=E9=AB=98=E9=A2=91=E7=8E=87=
=E5=9C=B0=E5=87=BA=E7=8E=B0=E5=9C=A8=E4=BA=BA=E4=BB=AC=E7=9A=84=E7=BD=91=
=E7=BB=9C=E8=81=8A=E5=A4=A9=E5=AF=B9=E8=AF=9D=E5=BD=93=E4=B8=AD=E3=80=82</=
div></div><img src=3D"cid:_Foxmail.1@e1a633df-2fe4-f85c-7270-ca78308ac1c5"=
border=3D"0"></body></html>
```

没有密码线索，都是文本，试一下零宽度字符隐写

- https://330k.github.io/misc_tools/unicode_steganography.html

Unicode Steganography with Zero-Width Characters

This is plain text steganography with zero-width characters of Unicode. Zero-width characters is inserted within the words.

JavaScript library is below. http://330k.github.io/misc_tools/unicode_steganography.js

Text in Text Steganography Sample

Original Text: (length: 307)
表情包文化，是随着网络社交沟通的增多出现的一种主流文化。一个人的表情包是其隐藏起来的真我，一个国家的表情包里能看到这个国家的表情。有时候，表情包表达的是不能道破的真实想法和感受，语言和文字的尽头，就是表情包施展的空间。
表情包是网络语言的一种进化，它的产生和流行与其特定的“生存环境”有关。其追求醒目、新奇、幽默等效果的特点，与年轻人张扬个性和搞怪的心理相符。
表情包之所以能够大范围地传播，是因为其弥补了文字交流的枯燥和态度表达不准确的弱点，有效地提高了沟通效率。部分表情包具有替代文字的功能，还可以节省打字时间。随着智能手机的全面普及和社交应用软件的广泛使用，表情包已经高频率地出现在人们的网络聊天对话当中。
Hidden Text: (length: 7)
hurryup

Steganography Text: (length: 363)
表情包文化，是随着网络社交沟通的增多出现的一种主流文化。一个人的表情包是其隐藏起来的真我，一个国家的表情包里能看到这个国家的表情。有时候，表情包表达的是不能道破的真实想法和感受，语言和文字的尽头，就是表情包施展的空间。
表情包是网络语言的一种进化，它的产生和流行与其特定的“生存环境”有关。其追求醒目、新奇、幽默等效果的特点，与年轻人张扬个性和搞怪的心理相符。
表情包之所以能够大范围地传播，是因为其弥补了文字交流的枯燥和态度表达不准确的弱点，有效地提高了沟通效率。部分表情包具有替代文字的功能，还可以节省打字时间。随着智能手机的全面普及和社交应用软件的广泛使用，表情包已经高频率地出现在人们的网络聊天对话当中。
Encode < Decode
Download Stego Text as File
CSDN @未初

Unicode Steganography with Zero-Width Characters

This is plain text steganography with zero-width characters of Unicode. Zero-width characters is inserted within the words.

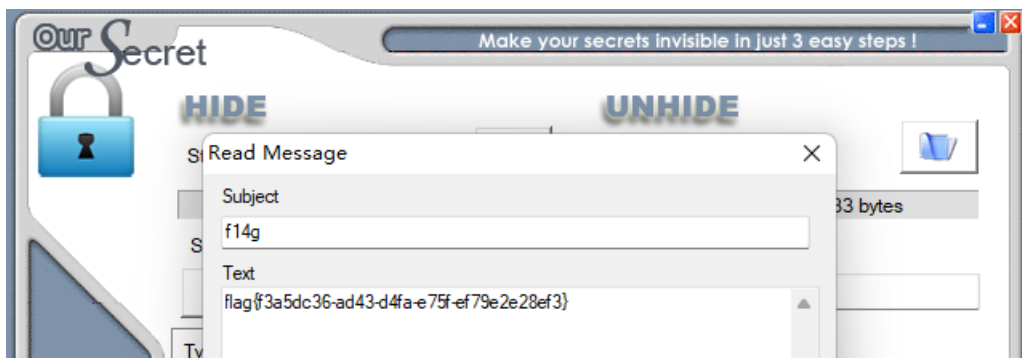
JavaScript library is below. http://330k.github.io/misc_tools/unicode_steganography.js

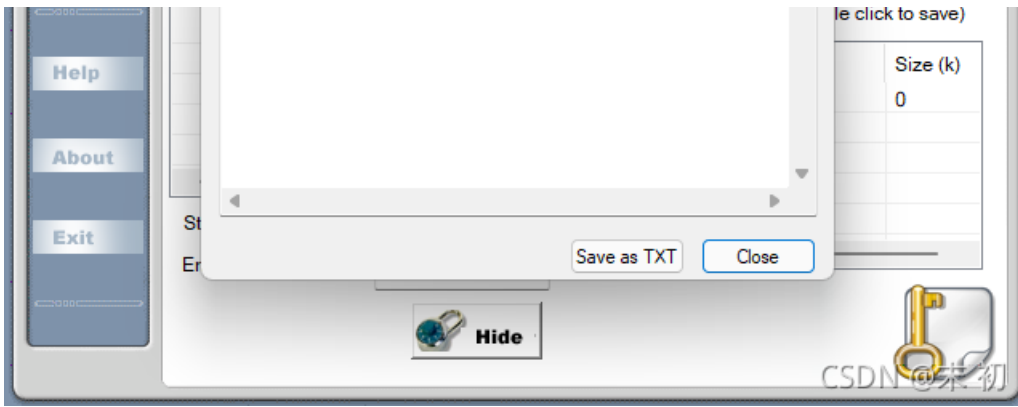
Text in Text Steganography Sample

Original Text: (length: 768)
表情包文化，是随着网络社交沟通的增多出现的一种主流文化。一个人的表情包是其隐藏起来的真我，一个国家的表情包里能看到这个国家的表情。有时候，表情包表达的是不能道破的真实想法和感受，语言和文字的尽头，就是表情包施展的空间。
表情包是网络语言的一种进化，它的产生和流行与其特定的“生存环境”有关。其追求醒目、新奇、幽默等效果的特点，与年轻人张扬个性和搞怪的心理相符。
表情包之所以能够大范围地传播，是因为其弥补了文字交流的枯燥和态度表达不准确的弱点，有效地提高了沟通效率。部分表情包具有替代文字的功能，还可以节省打字时间。随着智能手机的全面普及和社交应用软件的广泛使用，表情包已经高频率地出现在人们的网络聊天对话当中。
Hidden Text: (length: 7)
hurryup

Steganography Text: (length: 824)
表情包文化，是随着网络社交沟通的增多出现的一种主流文化。一个人的表情包是其隐藏起来的真我，一个国家的表情包里能看到这个国家的表情。有时候，表情包表达的是不能道破的真实想法和感受，语言和文字的尽头，就是表情包施展的空间。
表情包是网络语言的一种进化，它的产生和流行与其特定的“生存环境”有关。其追求醒目、新奇、幽默等效果的特点，与年轻人张扬个性和搞怪的心理相符。
表情包之所以能够大范围地传播，是因为其弥补了文字交流的枯燥和态度表达不准确的弱点，有效地提高了沟通效率。部分表情包具有替代文字的功能，还可以节省打字时间。随着智能手机的全面普及和社交应用软件的广泛使用，表情包已经高频率地出现在人们的网络聊天对话当中。
Encode < Decode
Download Stego Text as File
CSDN @未初

两段话都隐写了密码





```
flag{f3a5dc36-ad43-d4fa-e75f-ef79e2e28ef3}
```

JumpJumpTiger



```
root@mochu7-pc:/mnt/c/Users/Administrator/Downloads# file jump.exe
jump.exe: PE32+ executable (console) x86-64, for MS Windows
root@mochu7-pc:/mnt/c/Users/Administrator/Downloads#
```

丢进 ida64 分析，main 函数是个提示

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     int v4[201]; // [rsp+20h] [rbp-60h]
4     int v5; // [rsp+344h] [rbp+2C4h]
5     int v6; // [rsp+348h] [rbp+2C8h]
6     int i; // [rsp+34Ch] [rbp+2CCh]
7
8     _main();
9     printf("This is your hint!!!");
10    v6 = 0;
11    v5 = 0;
12    for ( i = 0; i <= 99; ++i )
13    {
14        if ( (i & 1) != 0 )
15            v4[v5++] = i;
16        else
17            v4[v6++ + 100] = i;
18    }
19    return 0;
20 }
```

大概就是个这么的意思，根据奇偶位分数据

```
process.py
1 v4 = '/i9VjB/04RAwA0QKSGkgZoJARAgAAABNASQUEhAEAUQgAABAABA4DA/A2AwABQD4A'
2 v5 = ''
3 v6 = ''
4 for i in range(len(v4)):
5     if (i & 1) != 0:
6         v5 += v4[i]
7     else:
8         v6 += v4[i]
9
10 print(v5)
11 print(v6)
```

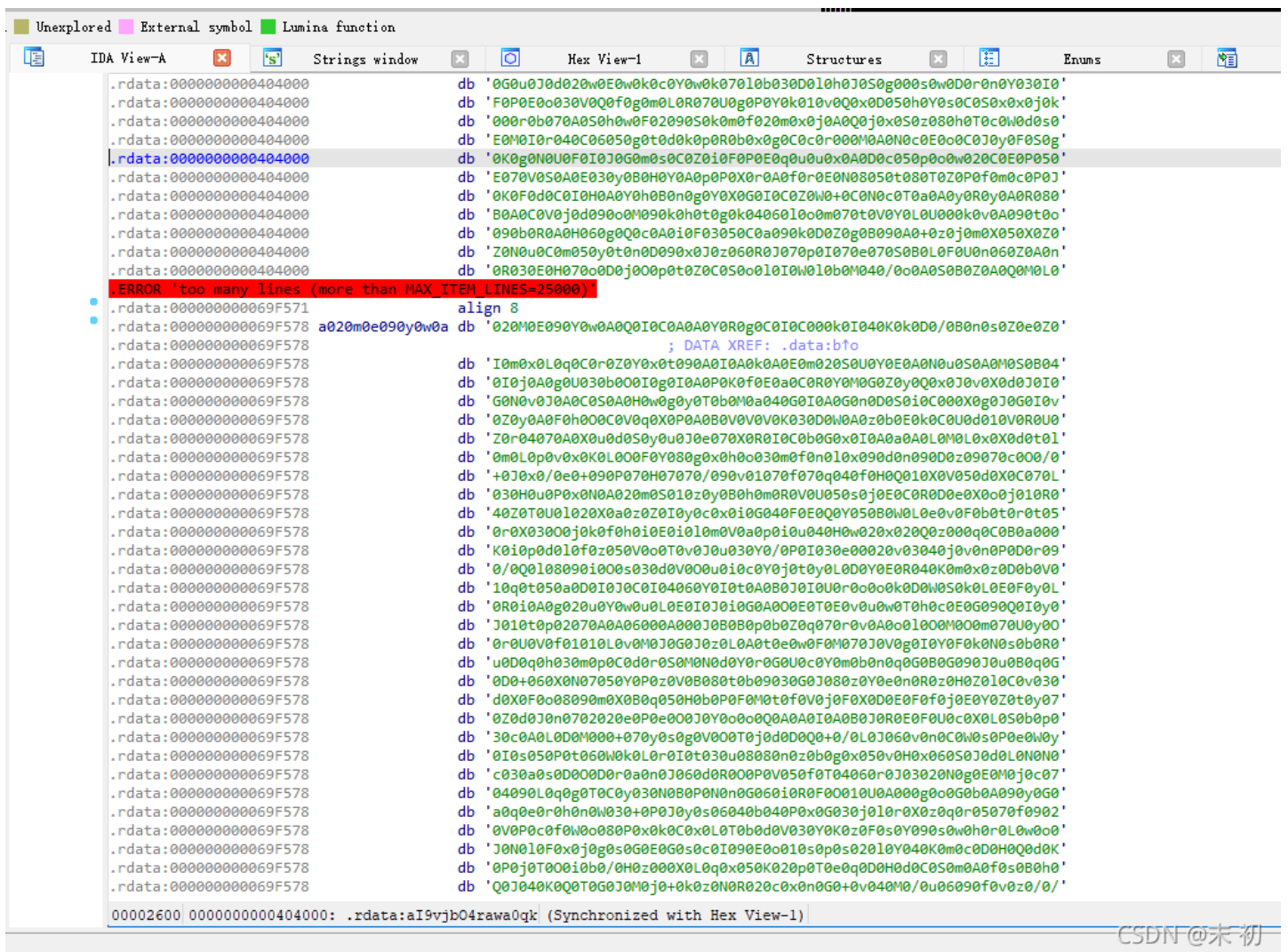
```
PowerShell kali-linux
PS C:\Users\Administrator\Downloads> python .\process.py
iVBORw0KGgoAAAANSU...
/9j/4AAQSkZJRgABAQ...
PS C:\Users\Administrator\Downloads>
```

在程序中还发现了大量字符串

```
Unexplored External symbol Lumina function
IDA View-A Strings window Pseudocode-A Hex View-1 Structures
.rdata:0000000004040000 assume cs:_rdata
.rdata:0000000004040000 ;org 404000h
.rdata:0000000004040000 aI9VjB04rawa0qk db '/i9VjB/04RAwA0QKSGkgZoJARAgAAABNASQUEhAEAUQgAABAABA4DA/A2AwABQD4A'
.rdata:0000000004040000 ; DATA XREF: .data:afo
.rdata:0000000004040000 db 'CAAUIDABAAQBEnAswVUYEU...
.rdata:0000000004040000 db 'w5KaMcE1Q88/SsEuhCEc...
.rdata:0000000004040000 db 'I08dZHIxx8xfIE6xtcbi...
.rdata:0000000004040000 db 'ccG1BmW74aIBcAr4veL...
.rdata:0000000004040000 db '4eqHkh54wekHbhY4GeK...
.rdata:0000000004040000 db 'e/H/hP4MePHSha4/eXH...
.rdata:0000000004040000 db 'fAkHmExBLAsxtE0B2/j...
.rdata:0000000004040000 db 'ALAgAZAUAAQUIcAtAb...
.rdata:0000000004040000 db 'MwkMNDtAUwGmKDXAmw...
.rdata:0000000004040000 db 'xGN1h6M2ngGwBkF2C0...
.rdata:0000000004040000 db 'fMomZJ8+mHuxbgtHwh...
.rdata:0000000004040000 db 'A0AZA2A0ADArANAN1A...
.rdata:0000000004040000 db 'GC2AQgFiTDAEAeAoI+...
.rdata:0000000004040000 db 'TlIomeEyUeM3nREeGw...
.rdata:0000000004040000 db 's2JgEAMSAjw7EZAAsz...
.rdata:0000000004040000 db 'OcGngsC1Lu190uazAc...
.rdata:0000000004040000 db 'zRfXbE1MYyIMzXUC9S...
.rdata:0000000004040000 db 'ITQ2EActive5xxoQm...
.rdata:0000000004040000 db 'X3PQvz7hshxz8RfTXF...
.rdata:0000000004040000 db 'k6CjXrIS8T0b4kquL...
.rdata:0000000004040000 db 'hbBHC9B6x05d0MGfN...
.rdata:0000000004040000 db 'ttwRLVagki3yf5S3s...
.rdata:0000000004040000 db 'AJYN5ulSgHDI6pWf8Y...
.rdata:0000000004040000 db 'emoLN3UQFi6QRj8IQc...
.rdata:0000000004040000 db 'SEfsQGNVAEVTje22M...
.rdata:0000000004040000 db 'fZl3+YNxa7+j+zXQ0...
.rdata:0000000004040000 db 'gOCvb5dryAMrA+BU1...
.rdata:0000000004040000 db 'ODczcj5fKg0E5ecGf...
.rdata:0000000004040000 db 'Q1HXASrinxQfBVZ1P...
.rdata:0000000004040000 db 'cw1F+jX77YsvnP3m2...
.rdata:0000000004040000 db 'N2GPK2D1yeRQlghs...
.rdata:0000000004040000 db 'PTfIvu6c5cX1Pj+Qk...
.rdata:0000000004040000 db '69EKYiLEn/9Nsqey5...
.rdata:0000000004040000 db 'Tozi6o2oJD7uX16h5...
.rdata:0000000004040000 db 'pma0KnJUF7f8bFmiQ...
.rdata:0000000004040000 db 'Wa/QTW50z0BLUM/3V...
.rdata:0000000004040000 db 'YrtyrTgbFQTNksanE...
.rdata:0000000004040000 db 'rquuoJDLXkoL6H2Ak...
.rdata:0000000004040000 db 'Yb5YUFjztjamA3cdr...
00002600 0000000004040000: .rdata:aI9VjB04rawa0qk (Synchronized with Hex View-1)
```

iVB... 开头的很明显是PNG图片的base64数据开头， /9j/... 开头的很明显是JPG的base64数据开头；从0开始奇数位是PNG数据，偶数位是JPG数据

另外除了这部分base64数据之外，还发现了夹杂着0的base64数据



先把base64数据提取出来，数据太长了，不便复制，使用脚本来提取比较方便，Python简单处理即可

```
from base64 import *

start_opt = 0x2600
middle_opt = 0x10DF00
end_opt = 0x7D4660
png_data = ''
jpg_data = ''

with open('jump.exe', 'rb') as f:
    f.seek(start_opt)
    part1_base64 = f.read(middle_opt - start_opt).decode()
    for i in range(len(part1_base64)):
        if i % 2 == 0:
            jpg_data += part1_base64[i]
        else:
            png_data += part1_base64[i]

with open('flag.jpg', 'wb') as f1:
    f1.write(b64decode(jpg_data))

with open('flag.png', 'wb') as f2:
    f2.write(b64decode(png_data))
```


得到两张图，但是 `png` 的图片数据并不完整；猜测另一部分的png图片的base64数据即为之前参杂0的数据



flag.jpg



flag.png CSDN @末初

继续使用Python简单处理

```
from base64 import *

start_opt = 0x2600
middle_opt = 0x10DF00
end_opt = 0x7D4660
png_data = ''

with open('jump.exe', 'rb') as f:
    f.seek(start_opt)
    part1_base64 = f.read(middle_opt - start_opt).decode()
    for i in range(len(part1_base64)):
        if i % 2 == 0:
            pass
        else:
            png_data += part1_base64[i]
    f.seek(middle_opt)
    part2_base64 = f.read(end_opt - middle_opt).decode()
    for i1 in range(len(part2_base64)):
        if i1 % 2 == 0:
            pass
        else:
            png_data += part2_base64[i1]

with open('flag.png', 'wb') as f2:
    f2.write(b64decode(png_data))
```



flag.png



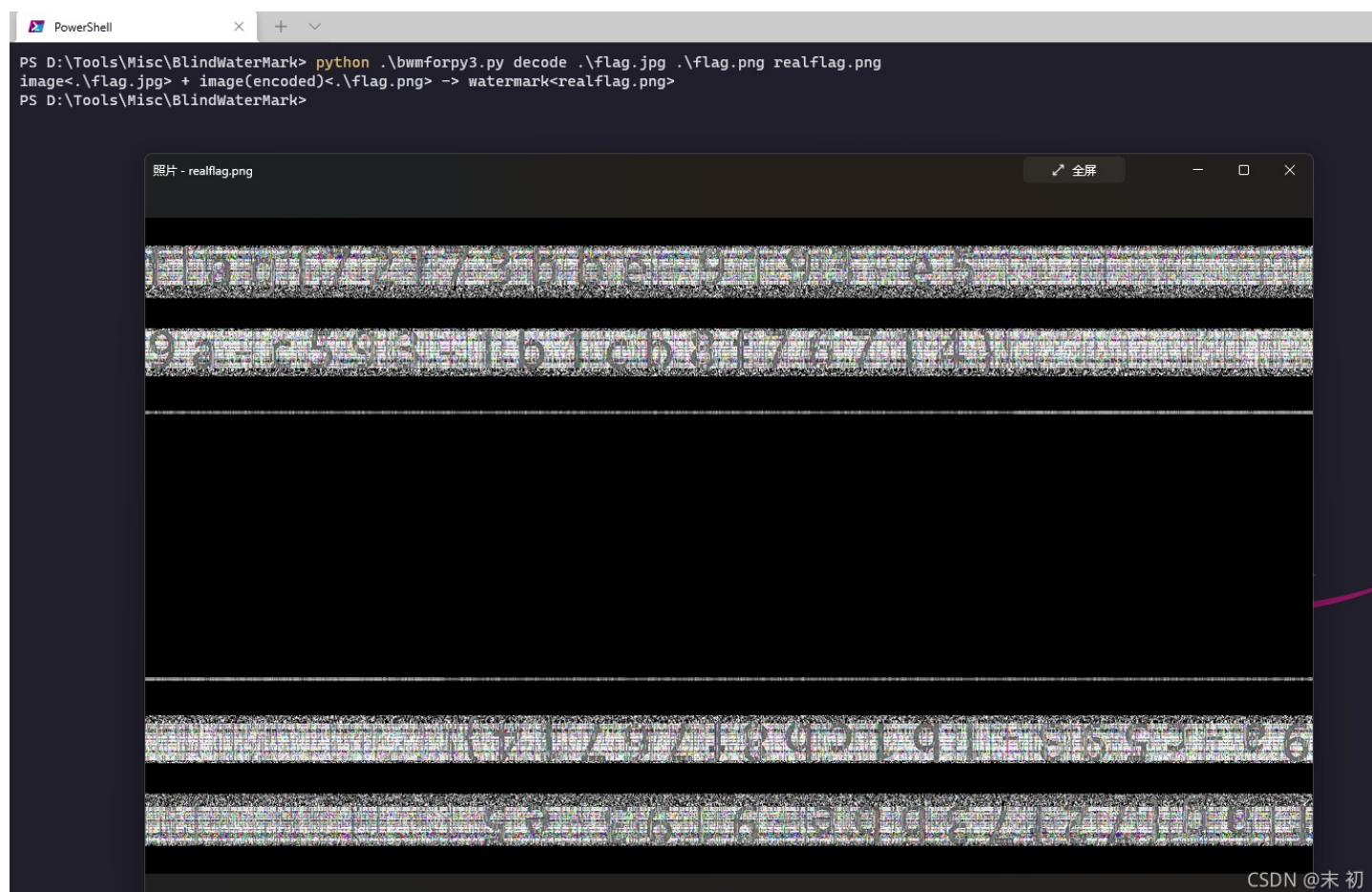
flag.jpg

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> 此电脑 > 本地磁盘 (D:) > Tools > Misc > BlindWaterMark >

名称	修改日期	类型	大小
blindwatermark	2021/9/4 9:56	文件夹	
JavaBlindWatermark	2021/9/25 11:51	文件夹	
blind.py	2020/8/30 12:58	PY 文件	2 KB
bwm.py	2020/8/27 12:24	PY 文件	6 KB
bwmforpy3.py	2020/8/27 12:24	PY 文件	8 KB
flag.jpg	2021/11/1 15:39	JPG 文件	402 KB
flag.png	2021/11/1 15:52	PNG 文件	3,004 KB
LICENSE	2020/8/27 12:24	文件	35 KB
README.md	2020/8/27 12:24	Markdown File	3 KB

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看不清的话用 `stegsolve` 调整一下

```
flag{72f73bbe-9193-e59a-c593-1b1cb8f76714}
```

[where_can_find_code](#)



```
format("Translate the letter J into I");  
dpeb{e58ca5e2-2c51-4eef-5f5e-33539364deoa}
```

```
kali-linux
[main] Where can I find code?</main>
<style>
  @font-face {
    font-family: 'Meta';
    src: url("https://www.axis-praxis.org/fonts/webfonts/MetaVariableDemo-Set.woff2");
    format("woff2");
    font-style: normal;
    font-weight: normal;
  }

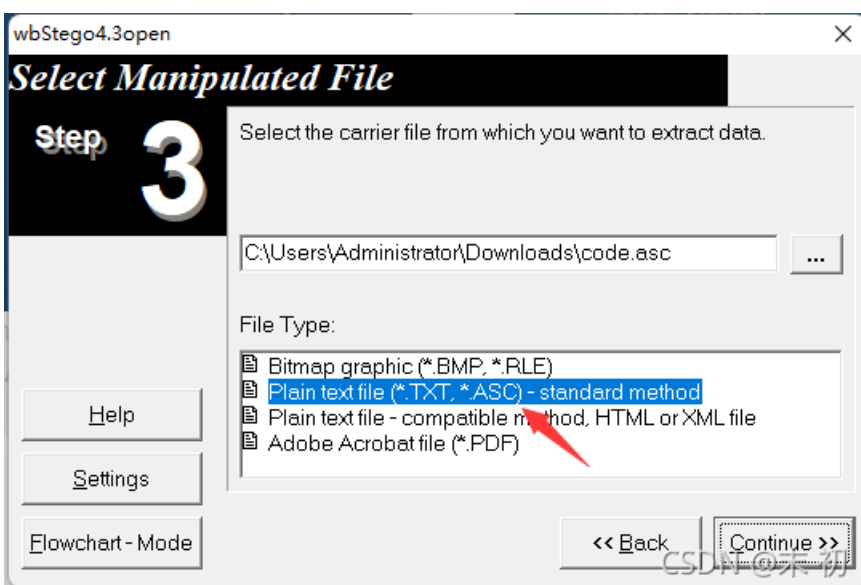
  body {
    box-sizing: border-box;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: space-around;
    align-items: center;
    background-color: #8357eb;
    width: 100vw;
    height: 100vh;
  }

  main {
    transition: all 0.5s;
    font-size: 15rem;
    text-align: center;
    color: transparent;
    font-family: 'Meta', sans-serif;
    text-shadow: 10px 10px 0px #07bccc,
    15px 15px 0px #e601c0,
    20px 20px 0px #e9019a,
    25px 25px 0px #f40468,
    45px 45px 10px #482896;
    cursor: pointer;
  }

  main:hover {
    font-variation-settings: "wght" 100, "ital" 0;
    text-shadow: none;
  }
</style>
<font>
format("Translate the letter J into I");
dpeb{e58ca5e2-2c51-4eef-5f5e-33539364deoa}
</font>
~
~
~
"code.asc" [noel][dos] 47L, 1247B
```

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wbstego隐写，无密码



得到云影密码

20810842042108421

Python简单处理转换即可

```
code = '20810842042108421'
code_list = code.split('0')
alphabet = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
text = ''
for nums in code_list:
    plus_num = 0
    for n in nums:
        plus_num += int(n)
    text += alphabet[plus_num - 1]
print('[+]: {}'.format(text))
```

```
PS C:\Users\Administrator\Downloads> python code.py
[+]: BINGO
```

接下来就是利用一条这条语句

```
Translate the letter J into I
```

Translate the letter J into I cipher

<http://people.eecs.berkeley.edu> > pdf PDF

12 Example: Playfair Cipher

substitution **cipher** of Chapter 11. In the Playfair **cipher**, there is not a single **translation** of each **letter** of the **alphabet**; that is, you don't just decide ...

14 pages

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12 Example: Playfair Cipher

Program file for this chapter: `playfair`

This project investigates a cipher that is somewhat more complicated than the simple substitution cipher of Chapter 11. In the Playfair cipher, there is not a single translation of each letter of the alphabet; that is, you don't just decide that every B will be turned into an F. Instead, pairs of letters are translated into other pairs of letters.

Here is how it works. To start, pick a *keyword* that does not contain any letter more than once. For example, I'll pick the word `keyword`. Now write the letters of that word in the first squares of a five by five matrix:

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- <http://rumkin.com/tools/cipher/playfair.php>

Decrypt ▾

Translate the letter into

Encode double letters (down and right one spot)

Alphabet Key: - [Show Keymaker](#)

Tableau Used:

B	I	N	G	O
A	C	D	E	F
H	K	L	M	P
Q	R	S	T	U
V	W	X	Y	Z

Your message:

[Add Spaces](#) - Adds a space after every other letter (only A-Z count) so you can see the letter pairs.
[Only Letters](#) - Removes all non-letters from the text.

This is your encoded or decoded text:

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flag{d58af5d2-2a51-4dde-5e5d-33539364cdbf}