

# CTF—训练平台——Crypto

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文章标签: c/c++ javascript ViewUI

原文地址: <http://www.cnblogs.com/Yuuki/p/7868581.html>

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一、滴答~滴



看形式是摩尔斯电码，放到解密网址里解密<http://www.jb51.net/tools/morse.htm>

## 摩斯密码翻译器

字母 Alphabet:

BKCTFMISC

翻译至摩斯密码

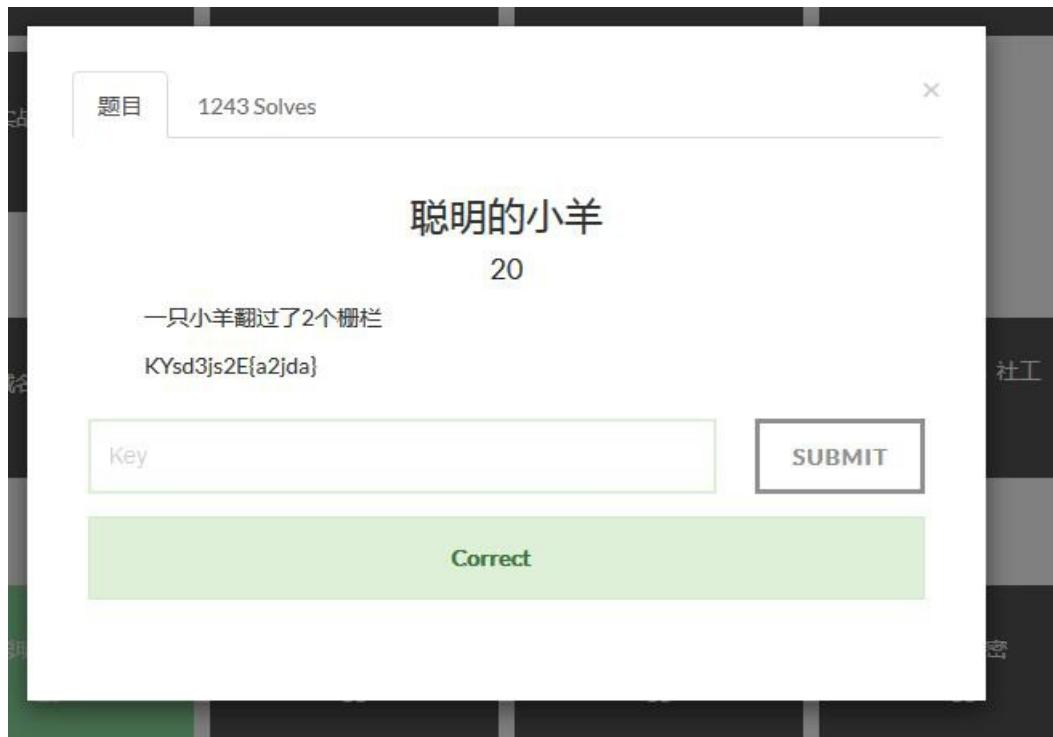
翻译密文:

.... -.- .- - ... - .. - - -

翻译至字母

全部清除

二、聪明的小羊



看到题目里“栅栏”，“2个”想到是栅栏加密；栏数为两栏；



三、OK

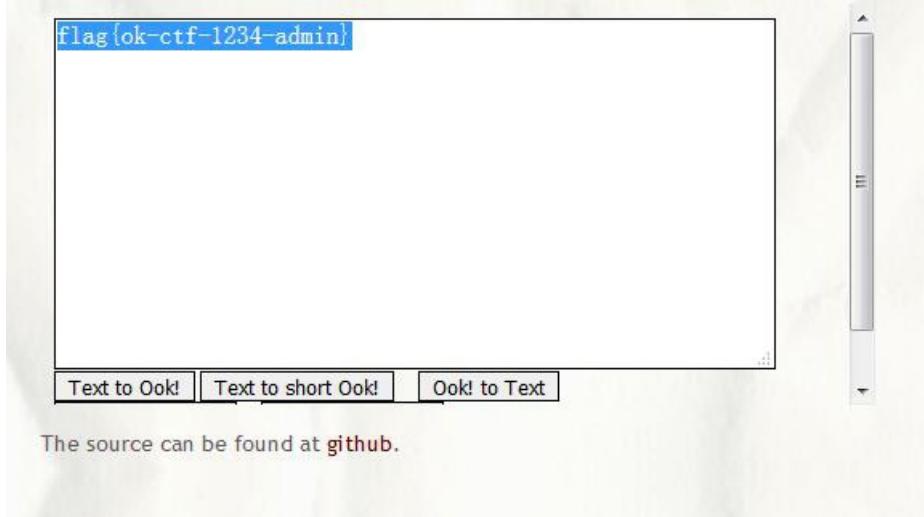
ok

30

Ook.  
Ook.  
Ook. Ook. Ook. Ook. Ook! Ook? Ook! Ook! Ook. Ook? Ook. Ook.  
Ook. Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook.  
Ook.  
Ook. Ook? Ook. Ook! Ook. Ook? Ook. Ook. Ook. Ook! Ook.  
Ook. Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook! Ook. Ook?  
Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook! Ook? Ook! Ook! Ook.  
Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook! Ook? Ook! Ook! Ook.  
Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook! Ook? Ook! Ook! Ook.  
Ook.  
Ook. Ook. Ook. Ook. Ook. Ook. Ook. Ook! Ook. Ook? Ook. Ook. Ook.  
Ook.  
Ook. Ook! Ook? Ook! Ook. Ook? Ook! Ook! Ook! Ook! Ook! Ook!  
Ook? Ook.  
Ook? Ook! Ook. Ook? Ook! Ook! Ook! Ook! Ook! Ook! Ook! Ook.  
Ook! Ook!

看到Ook，就知道是Brainfuck/Ook!编码，放到解题网址里<https://www.splitbrain.org/services/ook>

All the hard work (like actually understanding how those languages work) was done  
by Daniel Lorch and his [Brainfuck interpreter in PHP](#)



The source can be found at [github](#).

#### 四、这不是摩斯密码



## 六、一段Base64

一段Base64

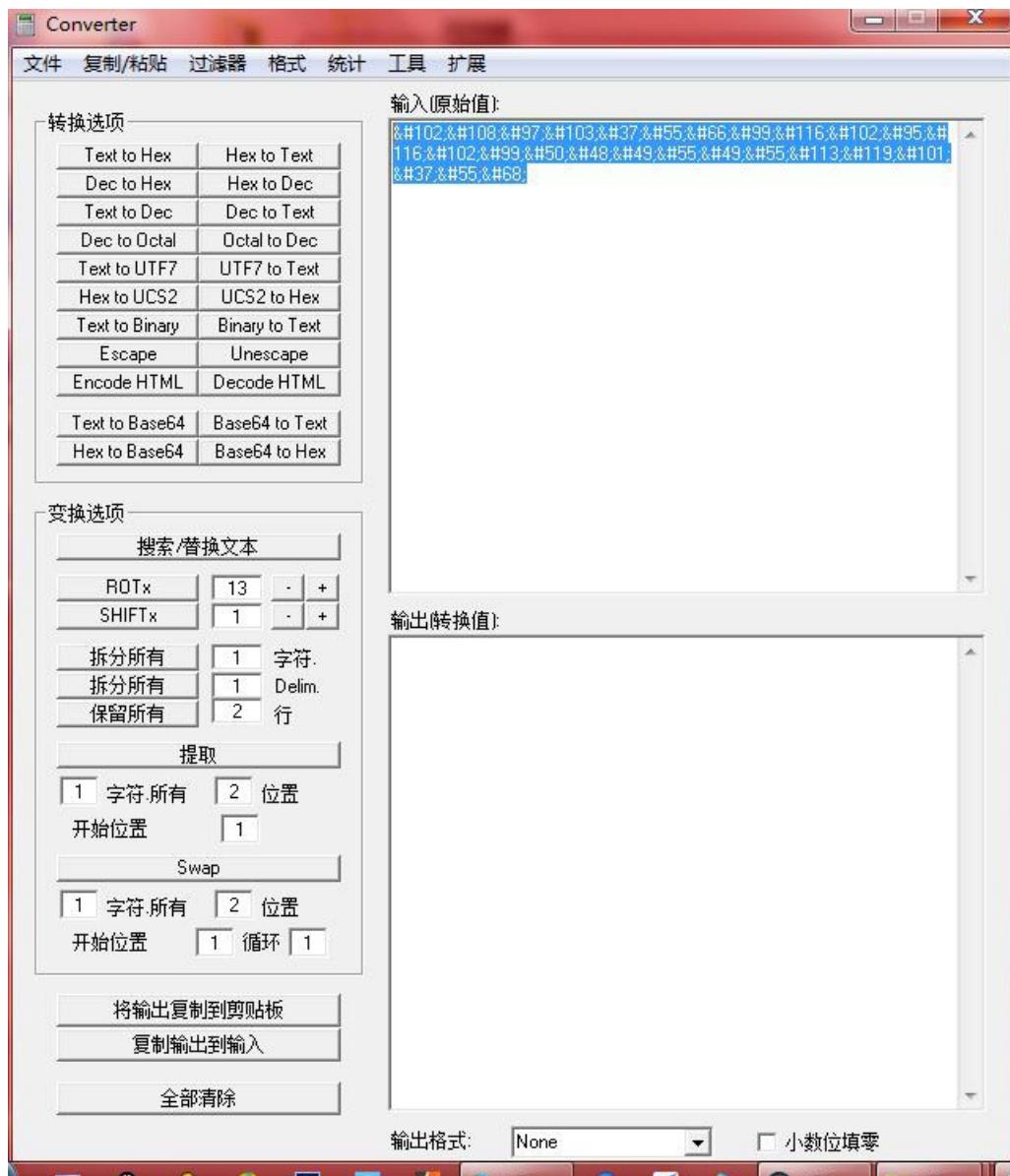
80

flag格式：flag{xxxxxxxxxxxxxx}

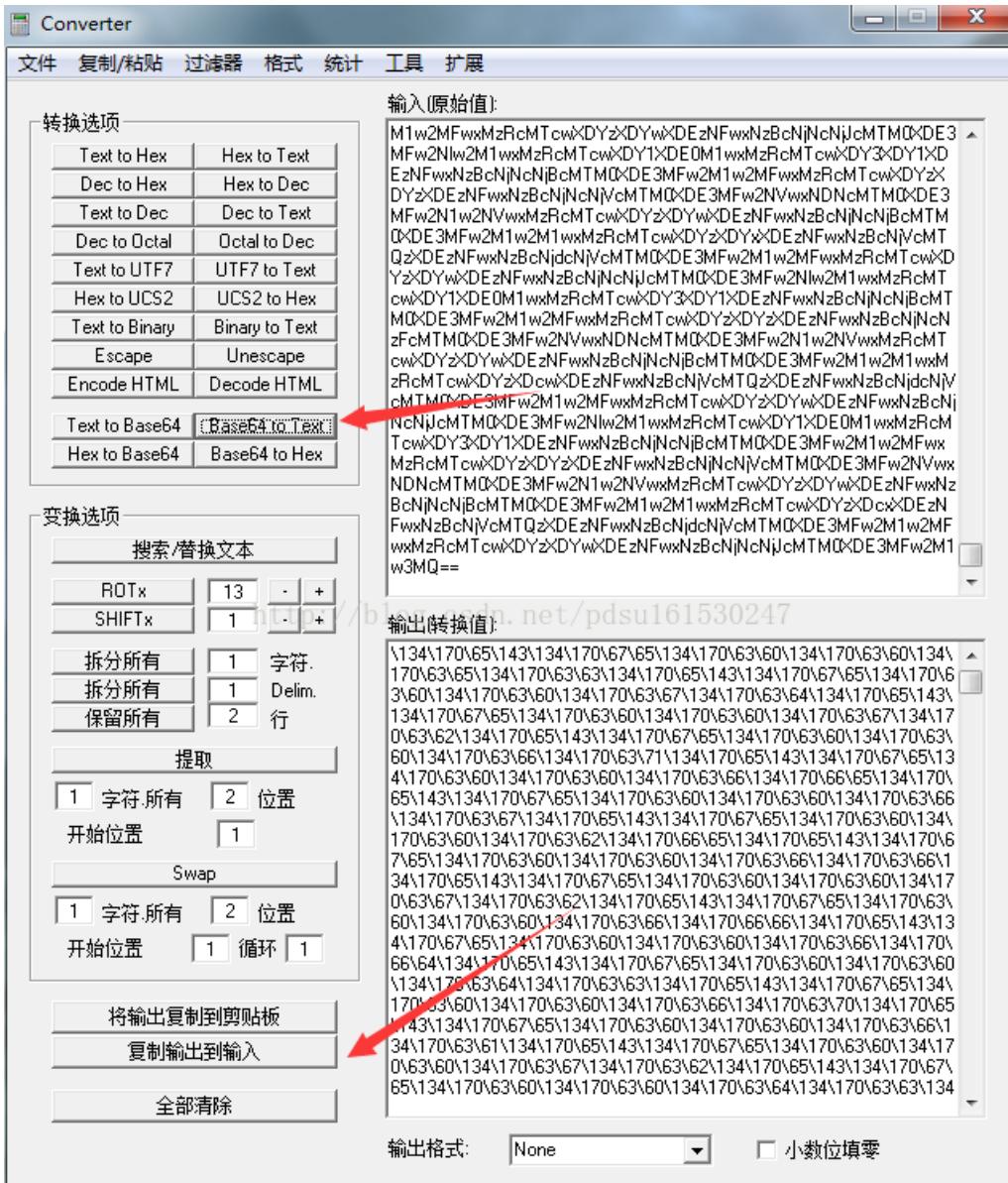
## base64.txt

SUBMIT

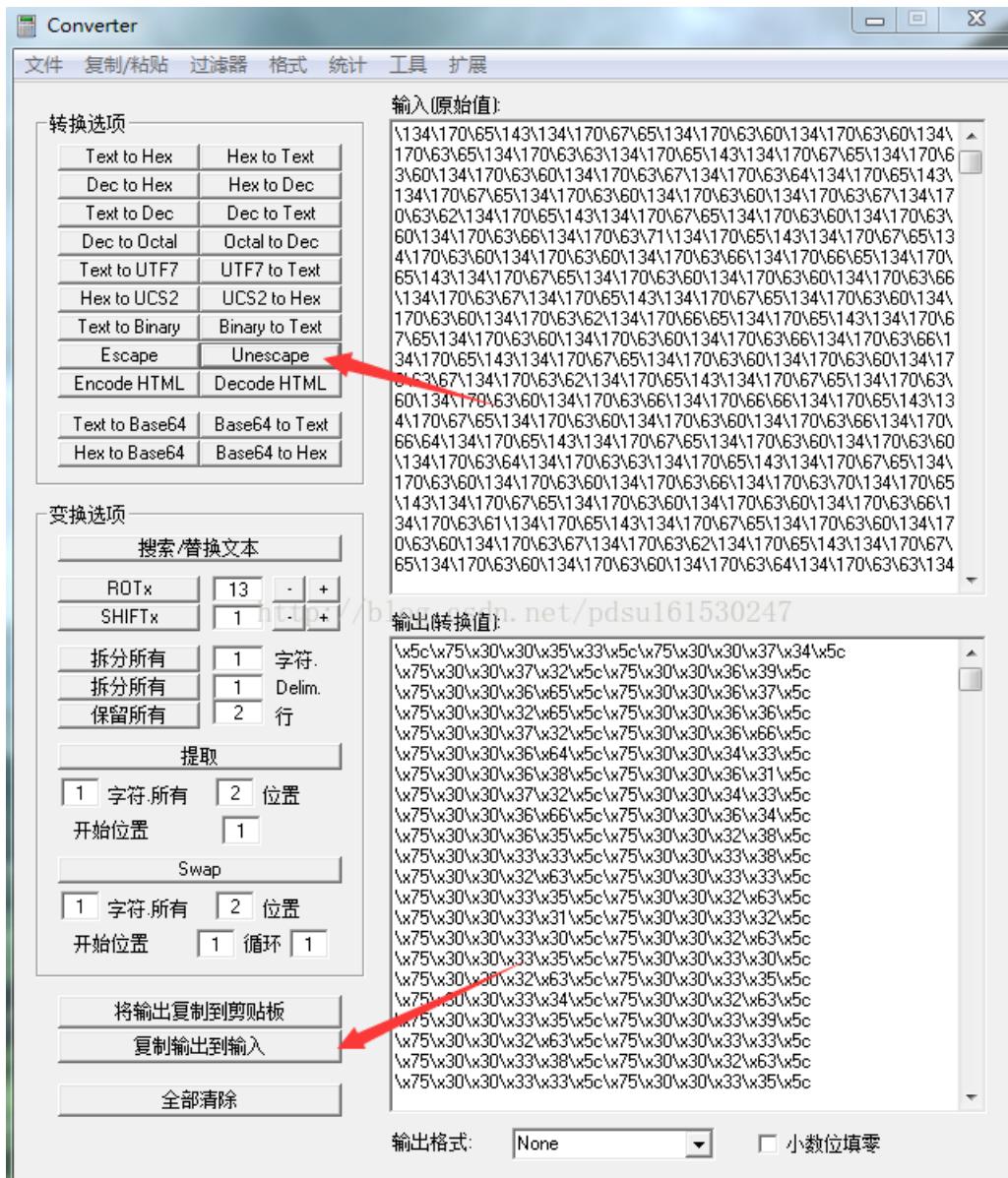


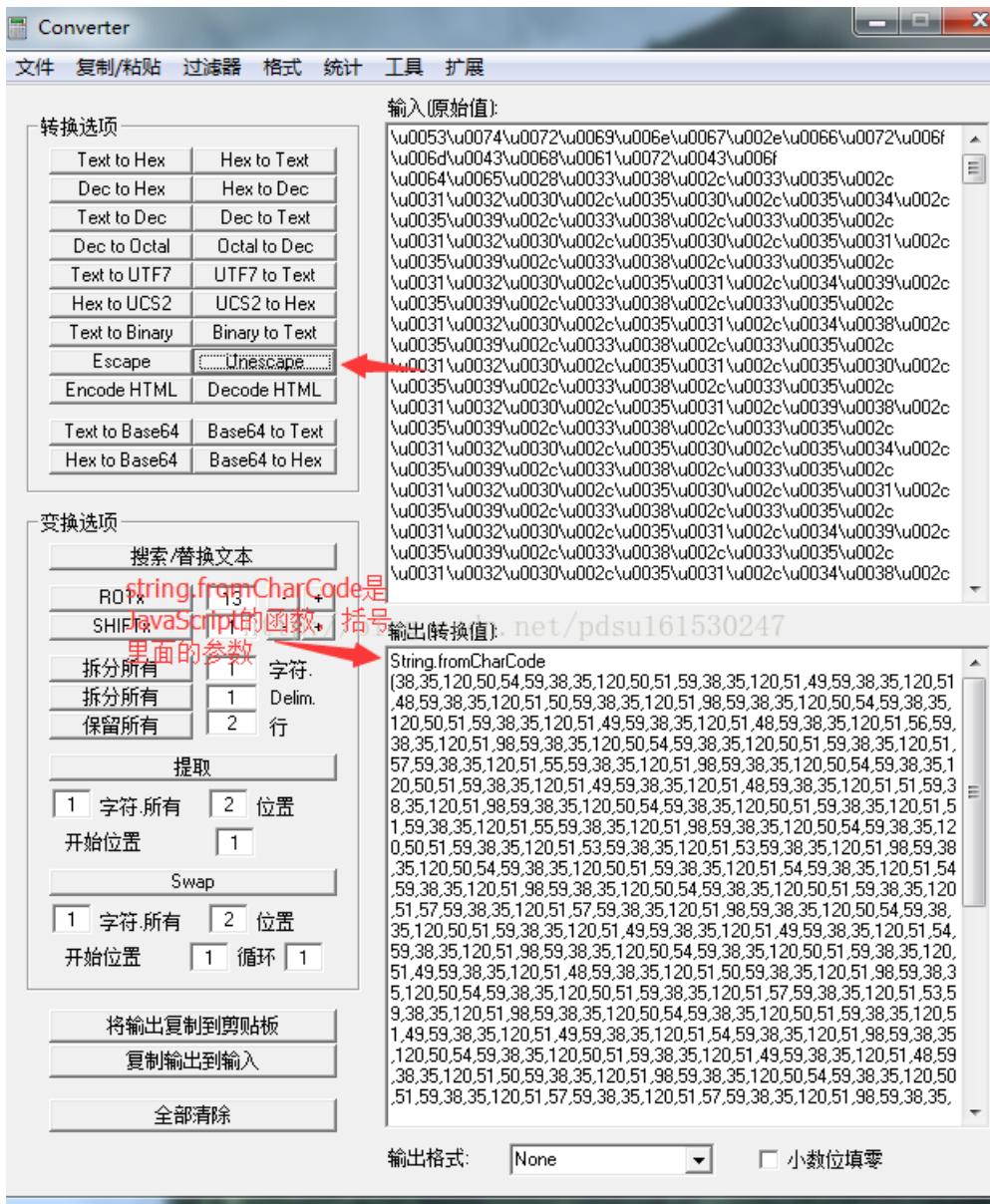


Base64 to Text——>复制输出到输入——>Unescape——>复制输出到输入——>Hex to Text——>复制输出到输入——>Unescape——>string.fromCharCode是JavaScript的函数，括号里面是参数，把括号里的内容复制到输入——>Dec to Text——>复制输出到输入——>Decode HTML——>在对输出进行Unicode解码——>%7B和%7D是url编码，解出来就是{}——>得到flag









Converter

文件 复制/粘贴 过滤器 格式 统计 工具 扩展

转换选项

Text to Hex	Hex to Text
Dec to Hex	Hex to Dec
Text to Dec	Dec to Text
Dec to Octal	Octal to Dec
Text to UTF7	UTF7 to Text
Hex to UCS2	UCS2 to Hex
Text to Binary	Binary to Text
Escape	Unescape
Encode HTML	Decode HTML
Text to Base64	Base64 to Text
Hex to Base64	Base64 to Hex

变换选项

搜索/替换文本

ROTx: 13, SHIFTx: 1

拆分所有: 1 字符, 拆分所有: 1 Delim, 保留所有: 2 行

提取

1 字符, 所有, 开始位置: 1, Swap

1 字符, 所有, 开始位置: 1 循环, 1

将输出复制到剪贴板

复制输出到输入 (箭头)

全部清除

输入(原始值):  
38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,51,49,59,38,35,120,51,  
48,59,38,35,120,51,50,59,38,35,120,51,98,59,38,35,120,50,54,59,38,35,1  
20,50,51,59,38,35,120,51,49,59,38,35,120,51,48,59,38,35,120,51,56,59,3  
8,35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,51,5  
7,59,38,35,120,51,55,59,38,35,120,51,98,59,38,35,120,50,54,59,38,35,12  
0,50,51,59,38,35,120,51,49,59,38,35,120,51,48,59,38,35,120,51,51,59,38  
.35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,51,51  
.59,38,35,120,51,55,59,38,35,120,51,98,59,38,35,120,50,54,59,38,35,120  
.50,51,59,38,35,120,51,53,59,38,35,120,51,53,59,38,35,120,51,98,59,38,  
35,120,50,54,59,38,35,120,50,51,59,38,35,120,51,54,59,38,35,120,51,54,  
59,38,35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,  
51,57,59,38,35,120,51,57,59,38,35,120,51,98,59,38,35,120,50,54,59,38,3  
5,120,50,51,59,38,35,120,51,49,59,38,35,120,51,49,59,38,35,120,51,54,5  
9,38,35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,5  
1,49,59,38,35,120,51,48,59,38,35,120,51,50,59,38,35,120,51,98,59,38,35  
.120,50,54,59,38,35,120,50,51,59,38,35,120,51,57,59,38,35,120,51,53,59  
.38,35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,51,59,38,35,120,51  
.49,59,38,35,120,51,49,59,38,35,120,51,54,59,38,35,120,51,98,59,38,35,  
120,50,54,59,38,35,120,50,51,59,38,35,120,51,49,59,38,35,120,51,48,59,  
38,35,120,51,50,59,38,35,120,51,98,59,38,35,120,50,54,59,38,35,120,50,  
51,59,38,35,120,51,57,59,38,35,120,51,57,59,38,35,120,51,98,59,38,35,1  
20,50,54,59,38,35,120,50,51,59,38,35,120,51,53,59,38,35,120,51,48,59,3  
输出(转换值):  
&#x26;&#x23;&#x31;&#x30;&#x32;&#x26;&#x23;&#x31;&#x30;&#x3  
8;&#x3b;&#x26;&#x23;&#x39;&#x37;&#x3b;&#x26;&#x23;&#x31;&#x30;&#  
x33;&#x3b;&#x26;&#x23;&#x33;&#x37;&#x3b;&#x26;&#x23;&#x35;&#x35;  
&#x3b;&#x26;&#x23;&#x36;&#x36;&#x3b;&#x26;&#x23;&#x39;&#x39;&#x3b;  
&#x26;&#x23;&#x31;&#x31;&#x36;&#x3b;&#x26;&#x23;&#x31;&#x30;&#x  
32;&#x3b;&#x26;&#x23;&#x39;&#x35;&#x3b;&#x26;&#x23;&#x31;&#x31;&  
#x36;&#x3b;&#x26;&#x23;&#x33;&#x31;&#x30;&#x32;&#x3b;&#x26;&#x23;&#x39;  
&#x39;&#x3b;&#x26;&#x23;&#x35;&#x30;&#x3b;&#x26;&#x23;&#x34;&#x  
38;&#x3b;&#x26;&#x23;&#x34;&#x39;&#x3b;&#x26;&#x23;&#x35;&#x35;  
&#x3b;&#x26;&#x23;&#x34;&#x39;&#x3b;&#x26;&#x23;&#x35;&#x3b;  
&#x26;&#x23;&#x31;&#x33;&#x3b;&#x26;&#x23;&#x31;&#x31;&#x3  
39;&#x3b;&#x26;&#x23;&#x31;&#x30;&#x31;&#x3b;&#x26;&#x23;&#x33;&  
#x37;&#x3b;&#x26;&#x23;&#x35;&#x3b;&#x26;&#x23;&#x36;&#x3b;

输出格式: None 小数位填零



The screenshot shows a web-based tool for Unicode encoding/decoding. At the top, it displays the current location: '站长工具 > Unicode编码转换'. There are several tabs at the top: 'Unicode编码' (selected), 'UTF-8编码', 'URL编码/解码', 'Unix时间戳', 'Ascii/Native编码互转', and 'base64图片在线转换工具'. Below the tabs, there are two input fields. The left field contains the hex string: '&#102;&#108;&#97;&#103;&#37;&#55;&#66;&#99;&#116;&#102;&#95;&#116;&#102;&#99;&#50;&#48;&#49;&#55;&#49;&#113;&#119;&#101;&#37;&#55;&#68;'. The right field shows the converted ASCII string: 'flag%7Bctf\_tfc201717qwe%7D'. Below the input fields is a URL: 'http://blog.csdn.net/pdsu161530247'. At the bottom, there are four buttons: 'ASCII 转 Unicode', 'Unicode 转 ASCII', 'Unicode 转 中文', and '中文 转 Unicode', along with a '清空结果' (Clear Result) button.

七、.!?

题目 72 Solves X

.!?

80

```
.....!?!?.....??!?!?..!...  
.....!?.!?!?!!!!!!?!!?!?!!!.....!?.  
.....?!!?.??.!?.!?.!?.!?.!?.!?.!?.  
!!!!!!?!!?.?!.?!.?!.?!.?!.?!.?!.?  
!?!?.?!!!!!!?!!?.?!.?!.?!.?!.?!.?  
??.?!.?!.?!.?!.?!.?!.?!.?!.?!.?!.?  
.?!?.?!.?!.?!.?!.?!.?!.?!.?!.?!.?  
??.?!.?!.?!.?!.?!.?!.?!.?!.?!.?  
??.?!.?!
```

SUBMIT

这也是Brainfuck/Ook!编码的一种，解码网址<https://www.splitbrain.org/services/ook>

## 八、+[]-

题目 147 Solves X

+[]-

80

```
+++++ +++++ [->+++ +++++++ ++<] >+++.+ ++++++,<+++ [->---<]>- -,+++  
+++,<  
++++[->+++ +<]>+ ++++,<++++[->---<]>,<+++[-> +++++ <]>+++ ,<+++  
[->---<]>-----,++++,<+++[-> +++++ <]>+,<+++[->---<]> ----- -,<+++  
+[->+ +++ <]> ++,- ----- ,<+++[-> +++++ <]>+++ ,----- ,<+++[->---<]>-  
. <+++ +++++[->---<]> ----- ,+,<+++ ++++++ +[-> +++++++ ++<]> ++++++  
+++++,<
```

SUBMIT

这也是Brainfuck/Ook!编码的一种，解码网址<https://www.splitbrain.org/services/ook>

## 九、奇怪的密码

## 奇怪的密码

99

突然天上一道雷电  
gndk€rlqhmtkwpp}z

Key

SUBMIT

gndk€rlqhmtkwpp}z这个格式像不像flag{\*\*\*\*\*}?

我们比较一下"gndk"与"flag"的ASCII码

gndk的10进制的ASCII码分别是： 103 110 100 107

flag的10进制的ASCII码分别是： 102 108 97 103

发现ASCII以此减少 1 2 3 4， 所以以此类推

C++代码：

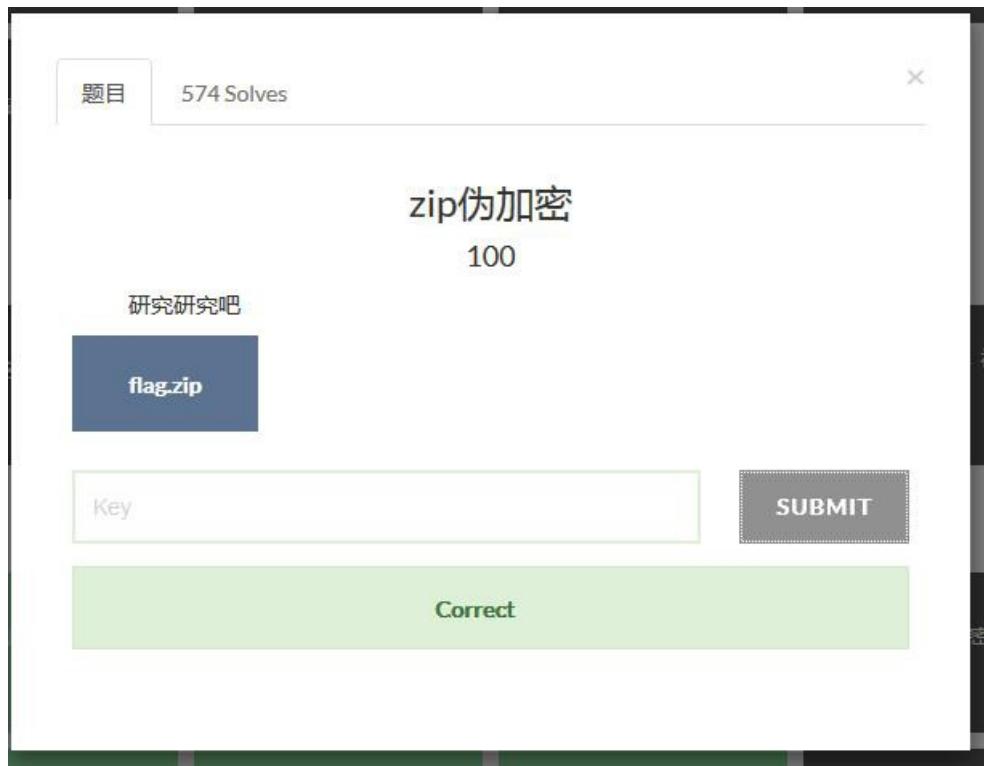
```
#include<stdio.h>
#include<string.h>
int main(){
    int i;
    char a[100];
    printf("请输入被雷劈过的字符串:\n");
    scanf("%s",a);
    printf("解密得:\n");
}
```

```
for(i=0;i<strlen(a);i++){
    a[i]=a[i]-(i+1);
}
```

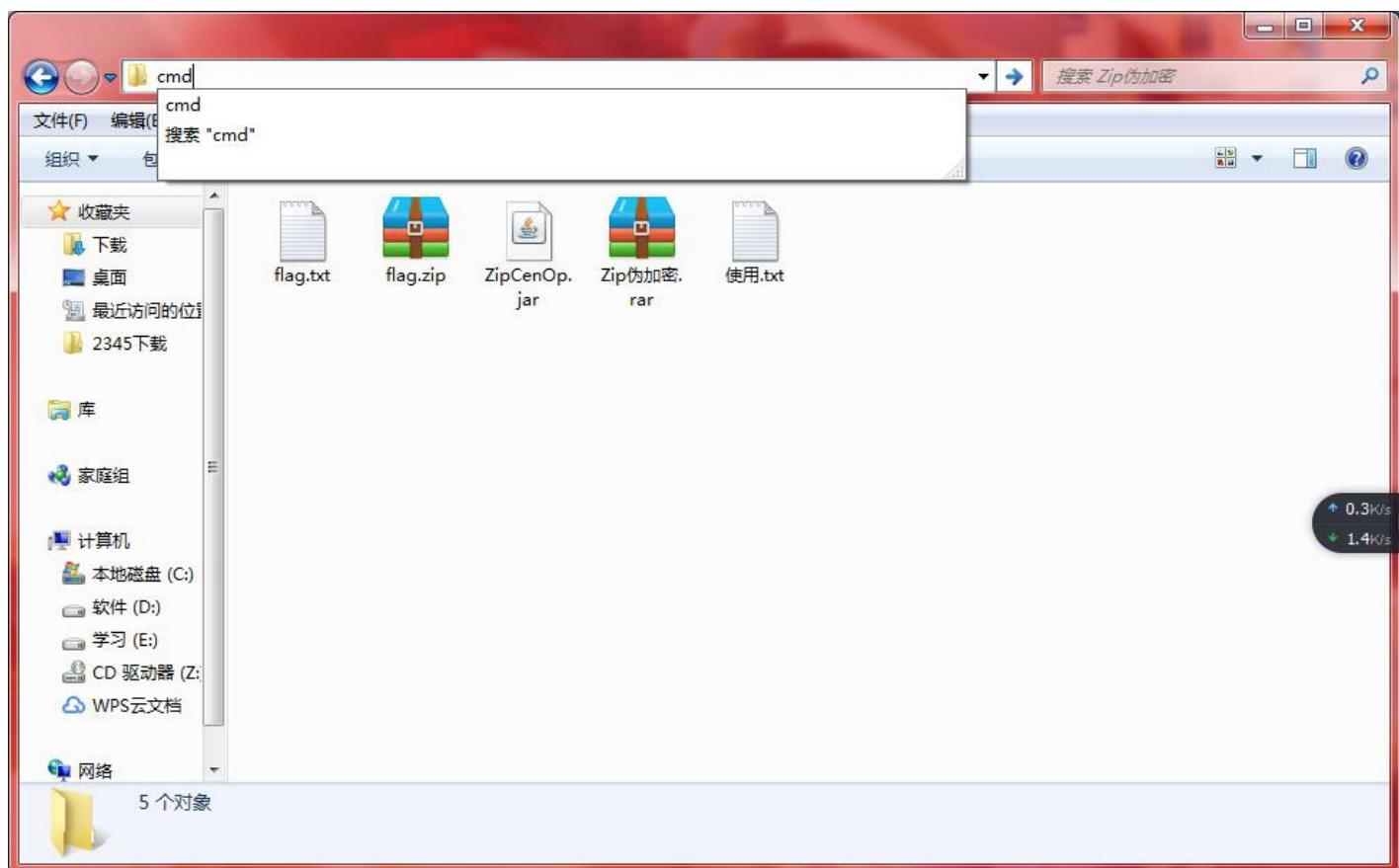
```
printf("%c",a[i]);
```

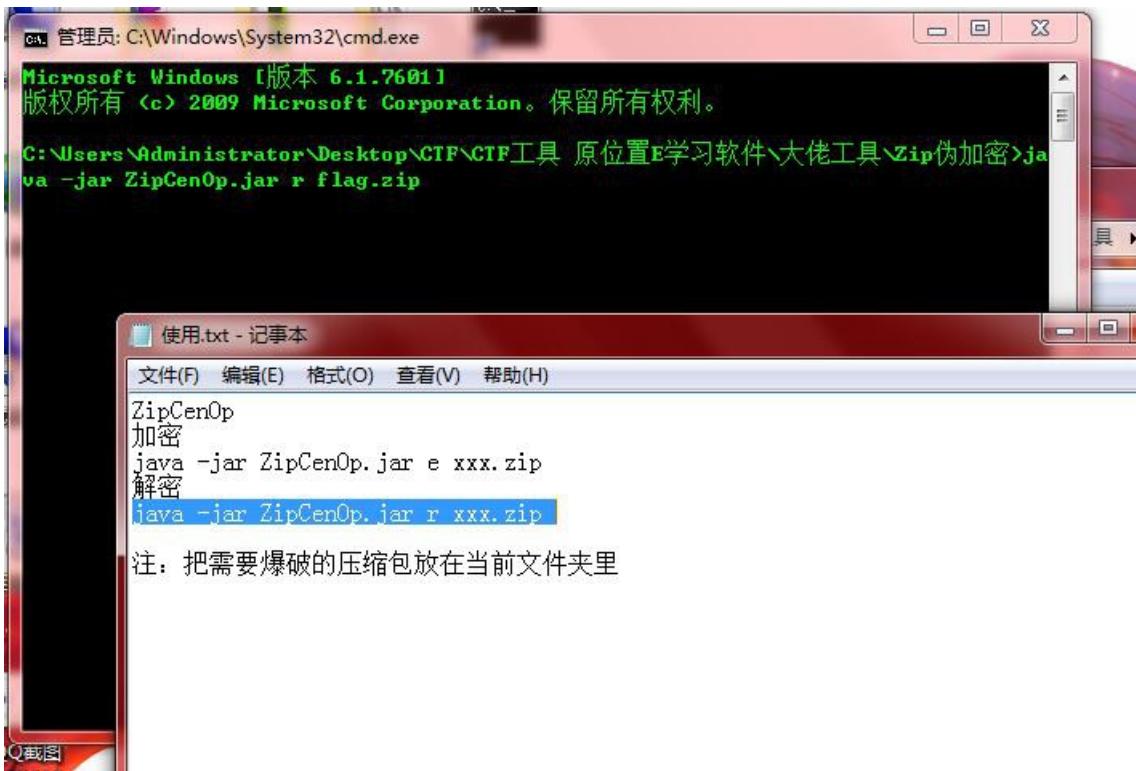
```
}
```

十、Zip伪加密



题目说了是伪加密，所以直接用工具尝试





## 十一、托马斯.杰斐逊

### 托马斯.杰斐逊

100

1 : <ZWAXJGDLUBVIQHKYPNTCRMOSFE <  
2 : <KPBELNACZDTRXMJQOYHGVSFUWI <  
3 : <BDMAIZVRNSJUWFHTEQGYXPLOCK <  
4 : <RPLNDVHGFCUKTEBSXQYIZMJWAO <  
5 : <IHFRLABEUOTSGJVDKCPMNZQWXY <  
6 : <AMKGHIWPNYCJBZFZDRUSLOQXVET <  
7 : <GWTHSPYBXIZULVKMRAFDCEONJQ <  
8 : <NOZUTWDCVRJLXKISEFAPMYGHBQ <  
9 : <QWATDSRFHENYVUBMCOIKZGJXPL <  
10 : <WABMCXPLTDSRJQZGOIKFHENYVU <  
11 : <XPLTDAOIKFZGHENYSRUBMCQWVJ <  
12 : <TDSWAYXPLVUBOIKZGJRFHENMCQ <  
13 : <BMCSRFLTDENWQWAOPYVUIKZGJ <  
14 : <XPHKZGJTDSENYVUBMLAOIRFCQW <

密钥 : 2,5,1,3,6,4,9,7,8,14,10,13,11,12

密文 : HCBTSXWCRQGLES

flag格式 flag[你解密的内容]

Key

SUBMIT

这是转盘加密

1: <ZWAXJGDLUBVIQHKYPNTCRMOSFE <  
2: <KPBELNACZDTRXMJQOYHGVSFUWI <  
3: <BDMAIZVRNSJUWFHTEQGYXPLOCK <  
4: <RPLNDVHGFCUKTEBSXQYIZMJWAQ <  
5: <IHFRLABEUTSGJVDKCPMNZQWXY <  
6: <AMKGHIWPNYCJBZFZDRUSLOQXVET <  
7: <GWTHSPYBXIZULVKMRAFDCEONJQ <  
8: <NOZUTWDCVRJLXKISEFAPMYGHBQ <  
9: <QWATDSRFHENYVUBMCQIKZGJXPL <  
10: <WABMCXPLTDSRJQZGOIKFHENYVU <  
11: <XPLTDAOIKFZGHENYSRUBMCQWVJ <  
12: <TDSWAYXPLVUBOIKZGJRFHENMCQ <  
13: <BMCSRFLTDENQWAOPYVUIKZGJ <  
14: <XPHKZGJTDSENYVUBMLAOIRFCQW <

密钥: 2, 5, 1, 3, 6, 4, 9, 7, 8, 14, 10, 13, 11, 12

密文: H C B T S X W C R Q G L E S  
—————>

2: <HGVSFUWIKPBELNACZDTRXMJQOY <  
5: <CPMNZQWXYIHFRLABEUTSGJVDK <  
1: <BVIQHKYPNTCRMOSFEZWAXJGDLU <  
3: <TEQGYXPLOCKBDMAIZVRNSJUWFH <  
6: <SLOQXVETAMKGHIWPNYCJBZFZDRU <  
4: <XQYIZMJWAQPLNDVHGFCUKTEBS <  
9: <WATDSRFHENYVUBMCQIKZGJXPLQ <  
7: <CEONJQGWTHSPYEXIZULVKMRAFD <  
8: <RJLXKISEFAPMYGHBQNOZUTWDCV <  
14: <QWPHKZGJTDSENYVUBMLAOIRFC <  
10: <GOIKFHENYVUWABMCXPLTDSRJQZ <  
13: <LTDENQWAOPYVUIKZGJEMCSRHF <  
11: <ENYSRUBMCQWVJXPLTDAOIKFZGH <  
12: <SWAYXPLVUBOIKZGJRFHENMCQTD <

(注: 第五、简单加密 , 十二、来自宇宙的信号题, 后续会补充)