




CTF密码学Crypto3

原创

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订阅专栏

CTF密码学Crypto3

1.核心价值观编码

2.进制转化题

1.核心价值观编码

富强民主 100

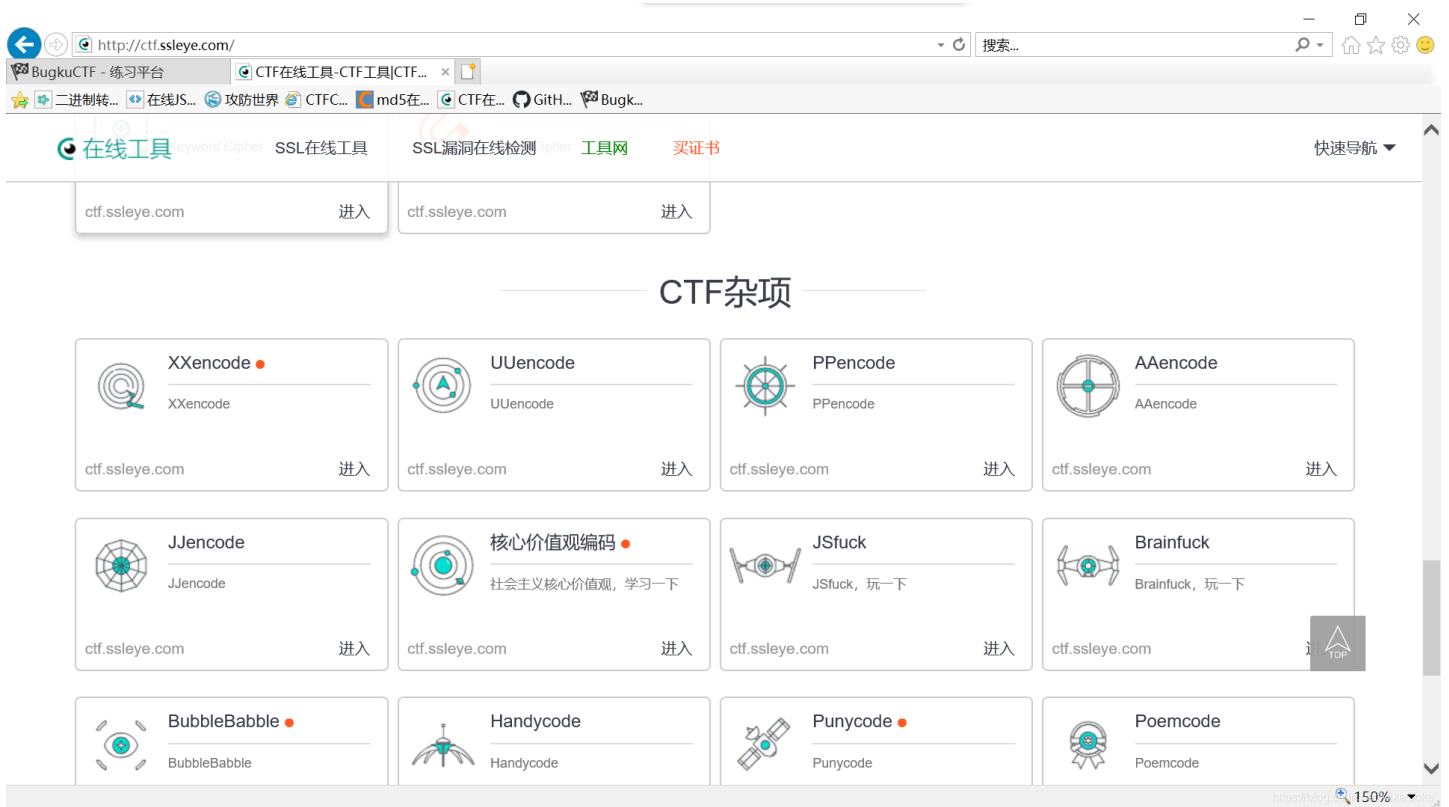
公正公正公正诚信文明公正民主公正法治法治友善平等和谐敬业和谐富强和谐富强和谐文明和谐平等公正公正和谐法治公正公正公正文明和谐民主和谐敬业和谐平等和谐敬业和谐敬业和谐和谐和谐公正法治友善法治

Flag

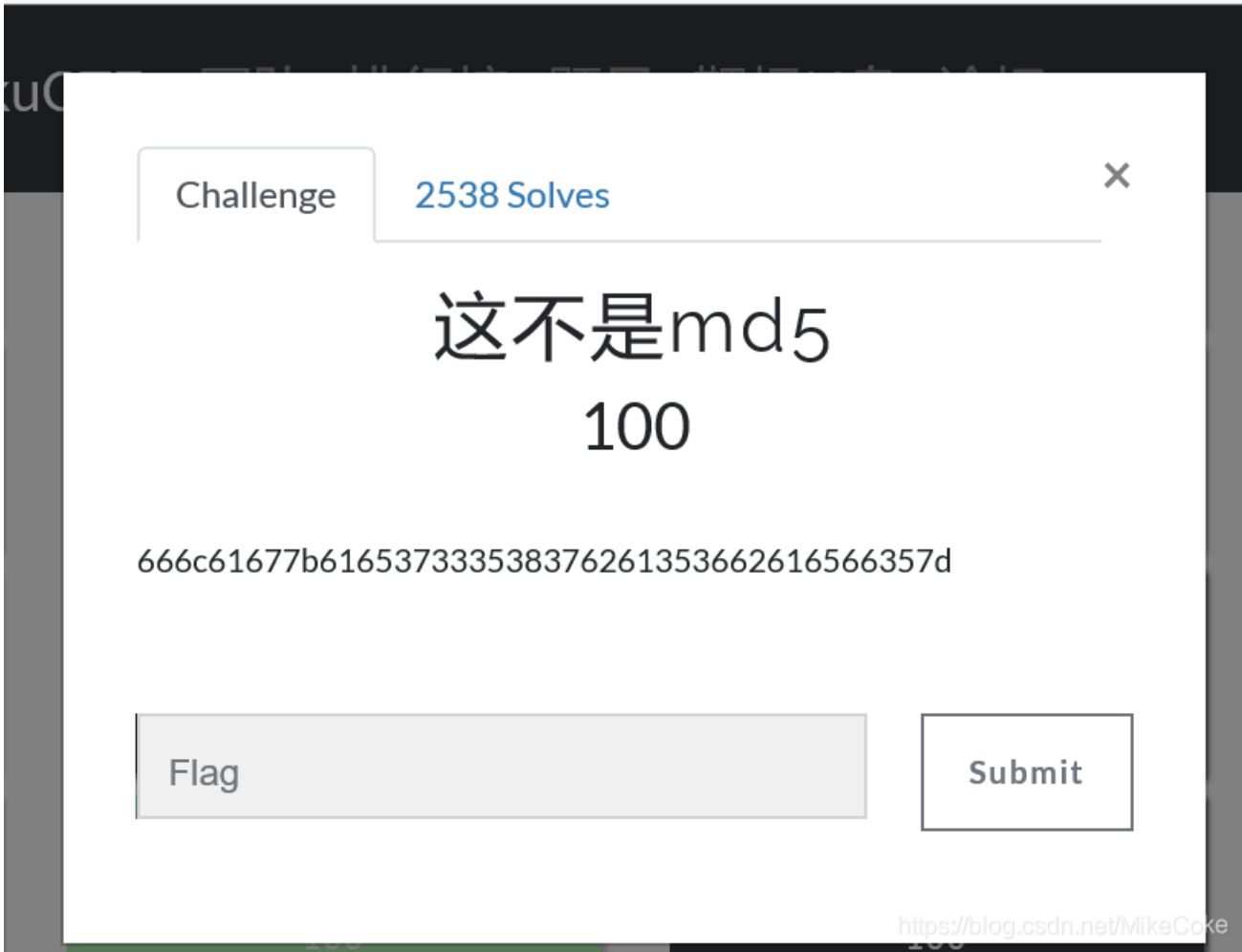
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直接利用工具解密：



2.进制转化题



题目中的数字为0-9，字符都没有超过F，分析可能是16进制转换，利用转换工具转换为文本字符串。

工具链接：<https://www.sojson.com/hexadecimal.html>



Challenge

1239 Solves



进制转换

100

二进制、八进制、十进制、十六进制，你能分的清吗？

来源：第七届大学生网络安全技能大赛

text.txt

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打开text.txt文本得到

下列字符串，

D: 十进制数Decima

B: 二进制数Binary

0x (H) : 十六进制数Hexadecimal

O: 八进制数Octal

```
d87 x65 x6c x63 o157 d109 o145 b100000 d116 b1101111 o40 x6b b1100101 b1101100
o141 d105 x62 d101 b1101001 d46 o40 d71 x69 d118 x65 x20 b1111001 o157 b1110101
d32 o141 d32 d102 o154 x61 x67 b100000 o141 d115 b100000 b1100001 d32 x67 o151
x66 d116 b101110 b100000 d32 d102 d108 d97 o147 d123 x31 b1100101 b110100 d98
d102 b111000 d49 b1100001 d54 b110011 x39 o64 o144 o145 d53 x61 b1100010 b1100011
o60 d48 o65 b1100001 x63 b110110 d101 o63 b111001 d97 d51 o70 d55 b1100010 d125
x20 b101110 x20 b1001000 d97 d118 o145 x20 d97 o40 d103 d111 d111 x64 d32 o164
b1101001 x6d o145 x7e
```

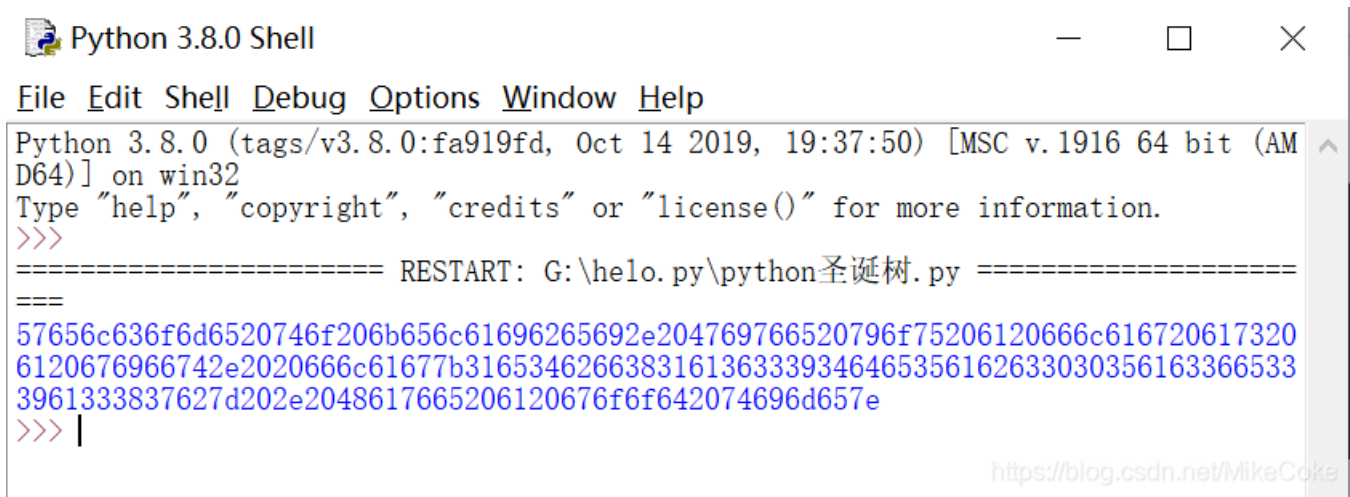
编写python代码将字符统一转换为16进制，再利用工具16进制转文本：

```

text=["d87","x65","x6c","x63","o157","d109","o145","b100000","d116","b1101111","o40","x6b","b1100101","b1101100",
,"o141","d105","x62","d101","b1101001","d46","o40","d71","x69","d118","x65","x20","b1111001","o157","b1110101","
d32","o141","d32","d102","o154","x61","x67","b100000","o141","d115","b100000","b1100001","d32","x67","o151","x66",
,"d116","b101110","b100000","d32","d102","d108","d97","o147","d123","x31","b1100101","b110100","d98","d102","b1",
11000","d49","b1100001","d54","b110011","x39","o64","o144","o145","d53","x61","b1100010","b1100011","o60","d48",
,"o65","b1100001","x63","b110110","d101","o63","b111001","d97","d51","o70","d55","b1100010","d125","x20","b101110",
,"x20","b1001000","d97","d118","o145","x20","d97","o40","d103","d111","d111","x64","d32","o164","b1101001","x6d",
,"o145","x7e"]
t=""
t1=""
for i in text:
    if i[0:1]=='d':
        t=str(hex(int(i[1:])))
        t=t[2:]
        t1=t1+t
    if i[0:1]=='x':
        t=i[1:]
        t1=t1+t
    if i[0:1]=='o':
        t=str(hex(int(i[1:],8)))
        t=t[2:]
        t1=t1+t
    if i[0:1]=='b':
        t=str(hex(int(i[1:],2)))
        t=t[2:]
        t1=t1+t
print(t1)

```

用IDLE运行得到16进制数码:



获取 flag:

```

57656c636f6d6520746f206b656c61696265692e204769766520796f75206120666c6167206173206120676966742e2020666c61677b31653462663831613633393464653561626330303561633665333961333837627d202e2048617665206120676f6f642074696d657e

```

字符串转16进制 >>

16进制转字符串 >>

结果互换

全部清空

Welcome to kelaibei. Give you a flag as a gift. flag
 {1e4bf81a6394de5abc005ac6e39a387b} . Have a good time~

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