

CRYPTO

密码学教室入门（一）

题目描述： 这是最著名的一种非对称加密密码体制

学习文档：[https://en.wikipedia.org/wiki/RSA_\(cryptosystem\)](https://en.wikipedia.org/wiki/RSA_(cryptosystem))

p:

0x9a724c6747de9eadccd33f4d60ada91754b8be8c65590cafe66f69a2f4afbfd359e47ca6fd2dbde8948062dc116bc574f4313ab99b2bb6d8ae47beaa0c1ebeddL

q:

0x8c1c81cc005ce3dd6d684ebb88151dc0c53b1cef8a29b1cb8121860fb57d93117bf449aac4300dc6103ac6211c6f8ae68987d99aff0dd8967a4afa00f2116873L

e:

0x190a000845e9c8c2059242835432326369aaf8c7ca85e685bba968b386155a91f1f7ca1019ff23d119222e1f0dfdeb0915d2e97601ef94bf15ca6d9211e984e9038f263f4984355c397ed22d67c26da6d31acfc4d599c70cba80859bee099e5a2dc3ab23aecf58f73f44d07318f70985c623d9612efefb15bf8dab77d5d54e85L

d: 0x28b95b7e3159a851cbf537e007ae49864b7dbb93fc370a5L

c:

0x23091e42fa7609c73f1941b320fad6d2ff6e47be588d1623f970f1fee7abd221c9834b208f3c888902fe87ca76ec1e1363757d93c6e25c49f1c61c72b141c0b8848b54a117427d8e30eeab89694eb5f849cafecb0e5361b9b2b0e3f89e0fdbcc66a6aad4a1a4a85d828083a01a5d569b7eeb6f9151794453382b524aa52993f9L

利用模重复平方算法

```
def squre_mod(b, n, m):  
    result = 1  
    remain = n % 2  
    n = n // 2  
    if remain == 1:  
        result = b % m  
    b = b*b % m  
    while n != 0:  
        remain = n % 2  
        n = n // 2  
        if remain == 1:  
            result = result*b % m  
        b = b*b % m  
    return result  
  
flag = squre_mod(c, e, n)  
print flag
```

Flag: 0x6867616d657b7273615f31735f737469316c5f653473795f6e6f77217dL

再按字符串读

Flag :hgame{rsa_1s_v3ry_e4sy!}

密码学教室入门（四）

n:
0x81cfc71c44c83faf3c5242fa81ae2e533fc945f3bef30bc13323ea4a55b3debc11
301c6a9ecb8f7ef92fa169b157435af728a145497f2cdf75b3007b9732da4c47d67
683f09ae1edc8f698f5ec7549593d9f1d06adafae4ad09514928bf0367a2719f7c1
71580318690dafc6a3d5385b3516b769f529c0a055ce25e68bc21395L
e: 0x01
c: 0x6867616d657b7273615f31735f737469316c5f653473795f6e6f77217dL

e = 1, 所以 c = m;

按字符串读 c

Flag :hgame{rsa_1s_still_e4sy_now!}

密码学教室入门（二）

题目描述：凯撒加密是一种古老的对称加密算法

mlfrj{Hfjxfw_hnumjw_8x_ozxy_ktw_kzs}

移位就好了,字母是 Z_{26} 数字是 Z_{10}

```
1 #include <stdio.h>
2 #include <ctype.h>
3 #include <stdlib.h>
4 #include <string.h>
5
6 int main()
7 {
8     int move;
9     for ( move = 0 ; move < 26 ; move++)
10     {
11         char *str = "/*cipher*/" ;
12         char *prt, *phead ;
13         prt = strdup(str) ;
14         phead = prt ;
15         while (*prt != '\0')
16         {
17             if (isascii(*prt))
18             {
19                 if (islower(*prt))
20                 {
21                     if (!islower(*prt - move))
22                         *prt = 'z' - (move - *prt + 'a')
23                     else
24                         *prt = *prt - move ;
25                 }
26                 else if (isupper(*prt))
27                 {
28                     if (!isupper(*prt - move))
29                         *prt = 'Z' - (move - *prt + 'A')
30                     else
31                         *prt = *prt - move ;
32                 }
33                 else if (isdigit(*prt))
34                 {
35                     int tmp = *prt - '0';
36                     tmp = (tmp - move) % 10;
37                     if (tmp < 0)
38                         tmp = tmp + 10;
39                     *prt = tmp + '0';
40                 }
41                 prt ++ ;
42             }
43             printf("%s\n", phead) ;
44         }
45         return 0;
46     }
```

Flag : hgame{Caesar_cipher_1s_just_for_fun}

密码学教室番外篇

题目描述：昨天看大家凯撒密码疯狂试 flag, 所以

yxrdv{uxwupytip19954902180//+/%}

同上

Flag : hgame{dgfdyhcry42287235413//+/%}

WEB

我是谁我在哪???

题目描述: <http://115.28.78.16:13333/web/web2/index.php>

在 index.php 的响应头里面

flag: hctf{1t_iz_4_4mall_tr1ck}

MISC

Explorer 的图库之一

题目描述: LoRexxar:z 神, 我想打 CTF

Explorer 扭头从图库里掏出了一张图

<http://115.28.78.16:13333/misc/d18d4b213fd71448f8c6f9780cb145a4>

看看你能找到几个 flag???

Winhex 打开开头

Flag: hctf{2e3e3}