hgame第一周wp

好康的流量

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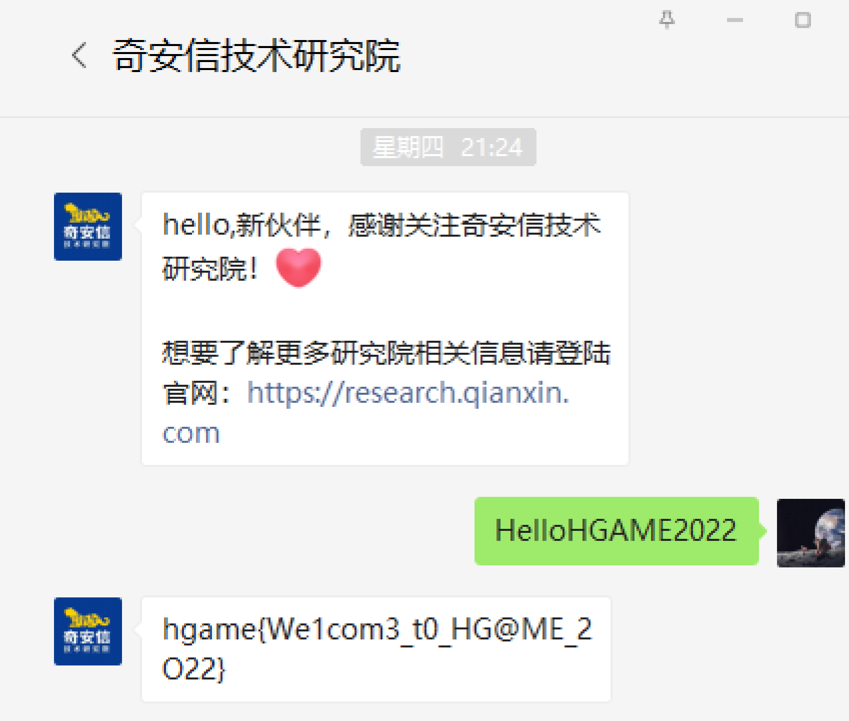

奇安信技术研究院

星期四 21:24

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HelloHGAME2022

hgame{We1com3_t0_HG@ME_2022}

Easy RSA

题目给的加密算法，很显然是RSA加密（但RSA中e的取值是在(p-1)*(q-1)的范围内）

注释部分是flag中每个字母加密之后的形式

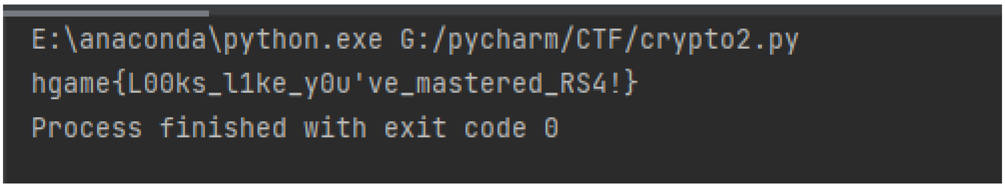
```python
from math import gcd
from random import randint
from gmpy2 import next_prime
from Crypto.Util.number import getPrime
from secret import flag

def encrypt(c):
    p = getPrime(8)
    q = getPrime(8)
    e = randint(0, p * q)
    while gcd(e, (p - 1) * (q - 1)) != 1:
        e = int(next_prime(e))
    return e, p, q, pow(ord(c), e, p * q)

if __name__ == '__main__':
    print(list(map(encrypt, flag)))
    # [(12433, 149, 197, 104), (8147, 131, 167, 6633), (10687, 211, 197, 35594), (19681, 131, 211, 15710), (33577, 251, 211, 38798), (30241, 157, 251, 35973), (293, 211, 157, 31548), (26459, 179, 149, 4778), (27479, 149, 223, 32728), (9029, 223, 137, 20696), (4649, 149, 151, 13418), (11783, 223, 251, 14239), (13537, 179, 137, 11702), (3835, 167, 139, 20051), (30983, 149, 227, 23928), (17581, 157, 131, 5855), (35381, 223, 179, 37774), (2357, 151, 223, 1849), (22649, 211, 229, 7348), (1151, 179, 223, 17982), (8431, 251, 163, 30226), (38501, 193, 211, 30559), (14549, 211, 151, 21143), (24781, 239, 241, 45604), (8051, 179, 131, 7994), (863, 181, 131, 11493), (1117, 239, 157, 12579), (7561, 149, 199, 8960), (19813, 239, 229, 53463), (4943, 131, 157, 14606), (29077, 191, 181, 33446), (18583, 211, 163, 31800), (30643, 173, 191, 27293), (11617, 223, 251, 13448), (19051, 191, 151, 21676), (18367, 179, 157, 14139), (18861, 149, 191, 5139), (9581, 211, 193, 25595)]

```

其中 `e代表公钥对应列表元素中小括号的第一个数字` ， `小括号中的第二位和第三位分别对应两个质数` ， `小括号的第四位数字表示明文通过RSA加密后的密文`

根据RSA算法的特性，先要计算出密钥，通过密钥解出密文

```python
flag_l=[(12433, 149, 197, 104), (8147, 131, 167, 6633), (10687, 211, 197, 35594), (19681, 131, 211, 15710), (33577, 251, 211, 38798), (30241, 157, 251, 35973), (293, 211, 157, 31548), (26459, 179, 149, 4778), (27479, 149, 223, 32728), (9029, 223, 137, 20696), (4649, 149, 151, 13418), (11783, 223, 251, 14239), (13537, 179, 137, 11702), (3835, 167, 139, 20051), (30983, 149, 227, 23928), (17581, 157, 131, 5855), (35381, 223, 179, 37774), (2357, 151, 223, 1849), (22649, 211, 229, 7348), (1151, 179, 223, 17982), (8431, 251, 163, 30226), (38501, 193, 211, 30559), (14549, 211, 151, 21143), (24781, 239, 241, 45604), (8051, 179, 131, 7994), (863, 181, 131, 11493), (1117, 239, 157, 12579), (7561, 149, 199, 8960), (19813, 239, 229, 53463), (4943, 131, 157, 14606), (29077, 191, 181, 33446), (18583, 211, 163, 31800), (30643, 173, 191, 27293), (11617, 223, 251, 13448), (19051, 191, 151, 21676), (18367, 179, 157, 14139), (18861, 149, 191, 5139), (9581, 211, 193, 25595)]
for index,value in enumerate(flag_l):
    e,p,q,m_data=value
    # print(e,p,q,m_data)
    for i in range(2,p*q):
        if (i*e)%((p-1)*(q-1))==1:      #找出密钥i的值
            print(chr(pow(m_data,i,p*q)),end='')  #通过密钥解出明文，之后转换为字符输出
            break
```

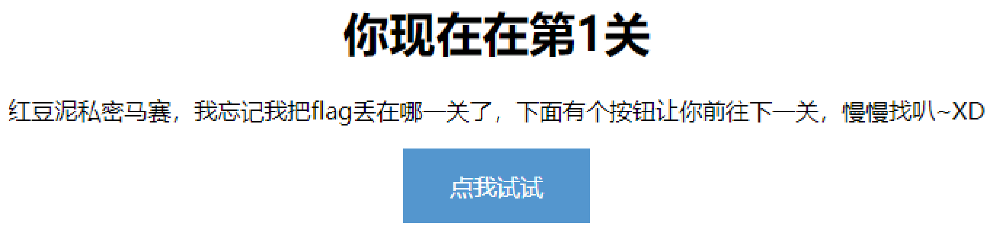
运行程序得到flag



```
E:\anaconda\python.exe G:/pycharm/CTF/crypto2.py
hgame{L00ks_l1ke_y0u've_mastered_RS4!}
Process finished with exit code 0
```

蛛蛛...嘿嘿♥我的蛛蛛

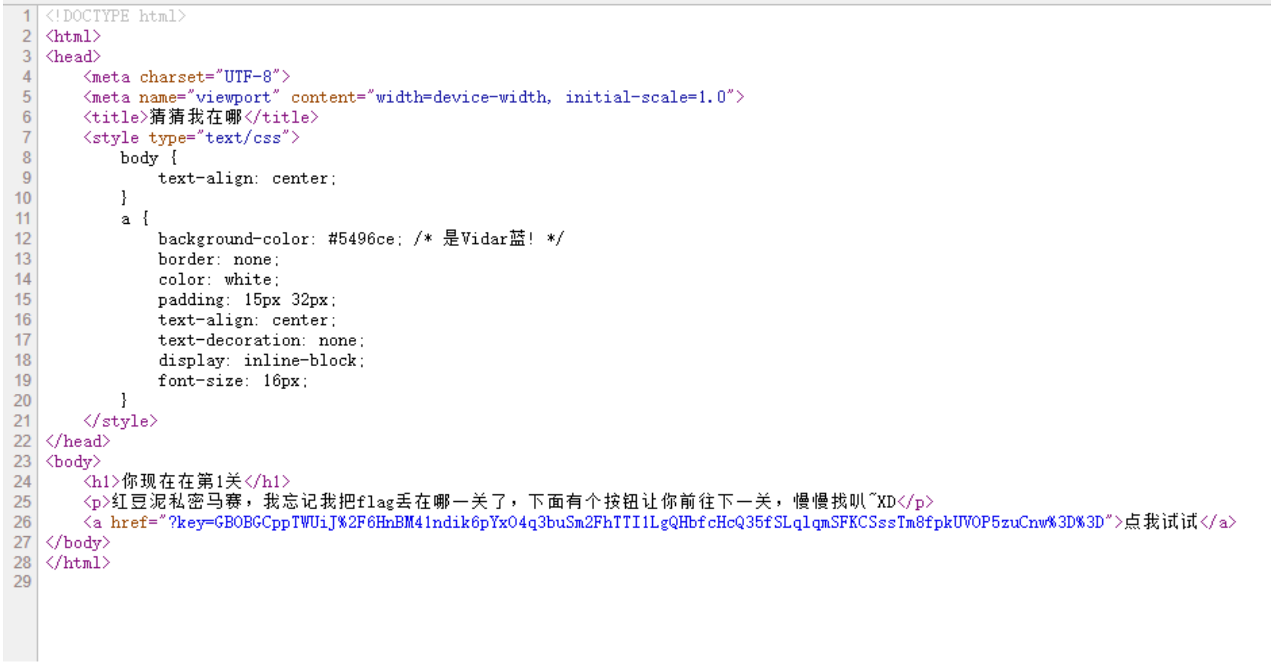
思路：该题就是找到该页面的隐藏链接跳转下一个页面，直到最后页面，通过抓最后页面的包，发现在响应头中存在flag



你现在在第1关

红豆泥私密马赛，我忘记我把flag丢在哪一关了，下面有个按钮让你前往下一关，慢慢找叭~XD

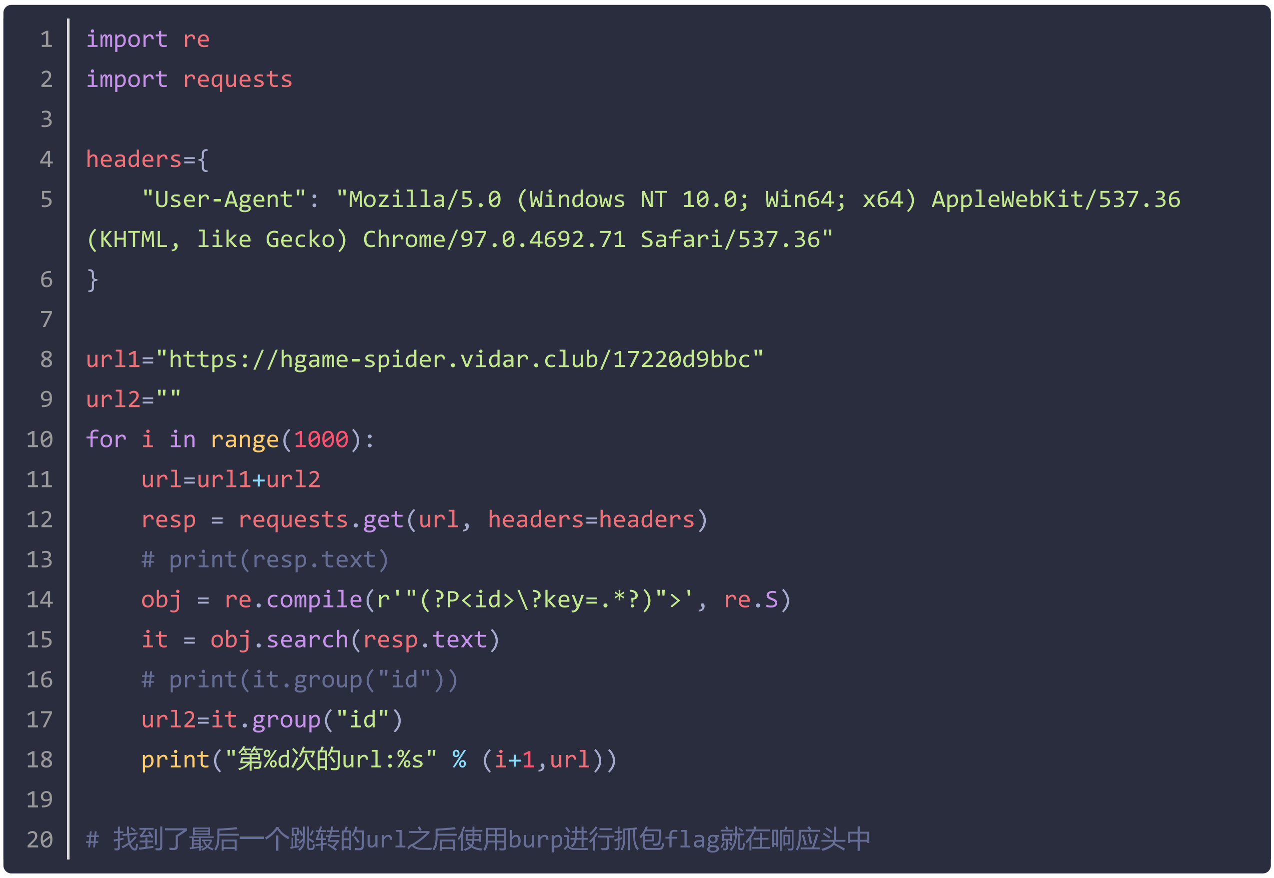
查看页面源码



```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>猜猜我在哪</title>
    <style type="text/css">
        body {
            text-align: center;
        }
        a {
            background-color: #5496ce; /* 是Vidar蓝! */
            border: none;
            color: white;
            padding: 15px 32px;
            text-align: center;
            text-decoration: none;
            display: inline-block;
            font-size: 16px;
        }
    </style>
</head>
<body>
    <h1>你现在在第1关</h1>
    <p>红豆泥私密马赛，我忘记我把flag丢在哪一关了，下面有个按钮让你前往下一关，慢慢找叭~XD</p>
    <a href="?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTI1LgQHbfcHcQ35fSLqlqmSFKCSssTm8fpkUVOP5zuCnw%3D%3D">点我试试</a>
</body>
</html>
```

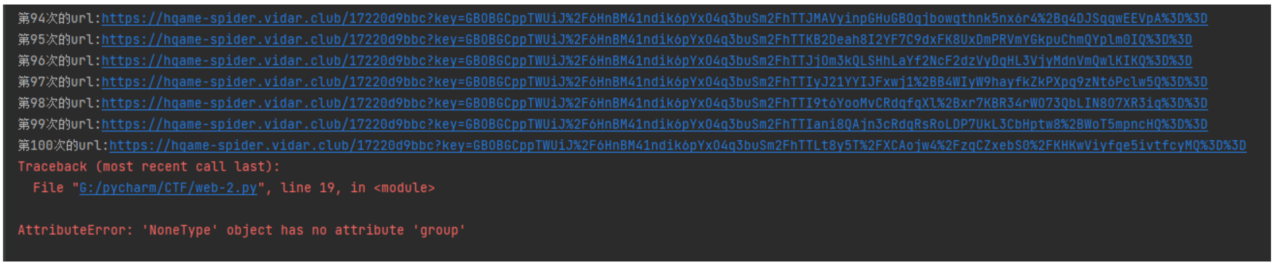
发现下一页面的url是在初始的`url：https://hgame-spider.vidar.club/17220d9bbc`的基础上加上`当前页面源码的href值`

使用爬虫爬取href的值，进行一个for循环，不断跳转到下一个页面，直到href值为空



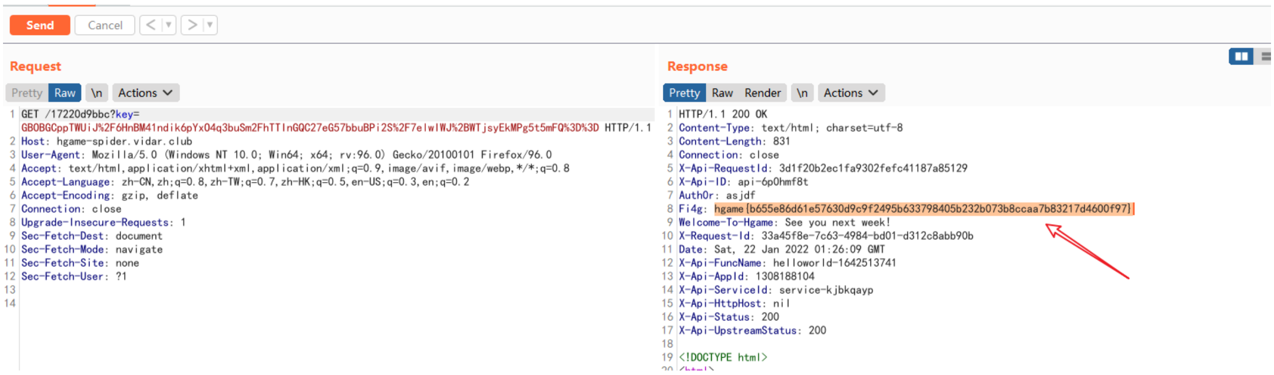
```python
import re
import requests

headers={
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692.71 Safari/537.36"
}

url1="https://hgame-spider.vidar.club/17220d9bbc"
url2=""
for i in range(1000):
    url=url1+url2
    resp = requests.get(url, headers=headers)
    # print(resp.text)
    obj = re.compile(r'"(?P<id>\?key=.*?)">', re.S)
    it = obj.search(resp.text)
    # print(it.group("id"))
    url2=it.group("id")
    print("第%d次的url:%s" % (i+1,url))

# 找到了最后一个跳转的url之后使用burp进行抓包flag就在响应头中
```

执行代码后的结果：



```
第94次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTJMAVyinpGHuGBOqjbowgthnk5nx6r4%2Bq4DJSqqwEEVpA%3D%3D
第95次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTKB2Deah8I2YF7C9dxFK8UxDmPRVmYGkpuChmQYplm0IQ%3D%3D
第96次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTJjOm3kQLSHhLaYf2NcF2dzVyDqHL3VjyMdnVmQwlKIKQ%3D%3D
第97次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTIyJ21YYIJFxwj1%2BB4WIyW9hayfkZkPXpq9zNt6Pclw5Q%3D%3D
第98次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTI9t6YooMvCRdqfqXl%2Bxr7KBR34rWO73QbLIN8O7XR3iq%3D%3D
第99次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTIani8QAjn3cRdqRsRoLDP7UkL3CbHptw8%2BWoT5mpncHQ%3D%3D
第100次的url:https://hgame-spider.vidar.club/17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTLt8y5T%2FXCAojw4%2FzqCZxebS0%2FKHKwViyfqe5ivtfcyMQ%3D%3D
Traceback (most recent call last):
  File "G:/pycharm/CTF/web-2.py", line 19, in <module>

AttributeError: 'NoneType' object has no attribute 'group'
```

找到最后一次url，使用burp进行抓包得到flag

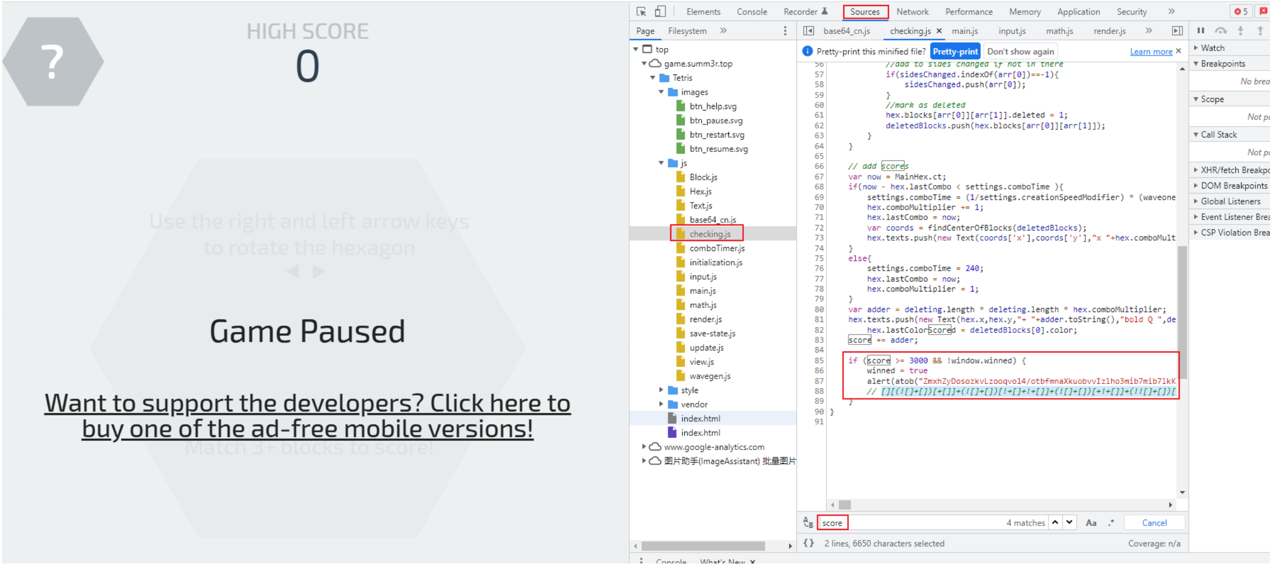


```
GET /17220d9bbc?key=GBOBGCppTWUiJ%2F6HnBM41ndik6pYx04q3buSm2FhTTInGQC27eG57bbuBPi2S%2F7elwIWJ%2BWTjsyEkMPg5t5mFQ%3D%3D HTTP/1.1
Host: hgame-spider.vidar.club
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:96.0) Gecko/20100101 Firefox/96.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: none
Sec-Fetch-User: ?1


```

```
HTTP/1.1 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 831
Connection: close
X-Api-RequestId: 3d1f20b2ec1fa9302fefc41187a85129
X-Api-ID: api-6p0hmf8t
Auth0r: asjdf
Fi4g: hgame{b655e86d61e57630d9c9f2495b633798405b232b073b8ccaa7b83217d4600f97}
Welcome-To-Hgame: See you next week!
X-Request-Id: 33a45f8e-7c63-4984-bd01-d312c8abb90b
Date: Sat, 22 Jan 2022 01:26:09 GMT
X-Api-FuncName: helloworld-1642513741
X-Api-AppId: 1308188104
X-Api-ServiceId: service-kjbkqayp
X-Api-HttpHost: nil
X-Api-Status: 200
X-Api-UpstreamStatus: 200

<!DOCTYPE html>
<html>
```

Tetris plus

思路：不需要抓包，好像这个游戏是只靠html+js+css代码组成，靠js来实现动态的游戏效果，要不你打到3000分，网页会发送flag，或则你按F12，查看js代码，寻找score



```
            //add to sides changed if not in there
            if(sidesChanged.indexOf(arr[0])==-1){
                sidesChanged.push(arr[0]);
            }
            //mark as deleted
            hex.blocks[arr[0]][arr[1]].deleted = 1;
            deletedBlocks.push(hex.blocks[arr[0]][arr[1]]);
        }
    }

    // add scores
    var now = MainHex.ct;
    if(now - hex.lastCombo < settings.comboTime ){
        settings.comboTime = (1/settings.creationSpeedModifier) * (waveone
        hex.comboMultiplier += 1;
        hex.lastCombo = now;
        var coords = findCenterOfBlocks(deletedBlocks);
        hex.texts.push(new Text(coords['x'],coords['y'],"x "+hex.comboMult
    }
    else{
        settings.comboTime = 240;
        hex.lastCombo = now;
        hex.comboMultiplier = 1;
    }
    var adder = deleting.length * deleting.length * hex.comboMultiplier;
    hex.texts.push(new Text(hex.x,hex.y,"+ "+adder.toString(),"bold Q ",de
        hex.lastColorScored = deletedBlocks[0].color;
    score += adder;

    if (score >= 3000 && !window.winned) {
        winned = true
        alert(atob("ZmxhZyDosozkvLzooqvol4/otbfmnaXkuobvvIzlho3mib7mib7lkK
        // [][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[
    }
}
```

找到了发送flag的代码

根据注释提示得到 `[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]][([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]+([][[]]+[])[+[]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]((!![]+[])[+!+[]]+(!![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+([][[]]+[])[+[]]+(!![]+[])[+!+[]]+([][[]]+[])[+!+[]]+([]+[])[(![]+[])[+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(!![]+[])[+[]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(![]+[])[!+[]+!+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]()[+!+[]+[!+[]+!+[]]]+((![]+[])[+!+[]]+(![]+[])[!+[]+!+[]]+(!![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+!+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]+!+[]]+[!+[]+!+[]+!+[]+!+[]]+(!![]+[])[+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]]+[+[]]+(!![]+[])[+[]]+[!+[]+!+[]+!+[]+!+[]]+[!+[]+!+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]]+[+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]+!+[]+!+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]+!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]]+[!+[]+!+[]+!+[]+!+[]+!+[]]+(!![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]+!+[]+!+`

```
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[+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])
[+!+[]+[+[]]]+([]+[])[([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+
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+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[]
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(!![]+[])[+!+[]]][([][[]]+[])[+!+[]]+(![]+[])[+!+[]]+((+[])[([][(![]+[])[+[]]+(![]
+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[][(![]+
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+[]+!+[]+!+[]]]](!+[]+!+[]+!+[]+[+!+[]])[+!+[]]+(![]+[])[!+[]+!+[]]+([![]]+[][[]])
[+!+[]+[+[]]]+(!![]+[])[+[]]]((!![]+[])[+[]])[([][(!![]+[])[!+[]+!+[]+!+[]]+([]
[[]]+[])[+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]+([![]]+[][[]])[+!+[]+[+[]]]+(!![]+
[])[!+[]+!+[]+!+[]]+(![]+[])[!+[]+!+[]+!+[]]]()+[])[!+[]+!+[]+!+[]]+(!![]+[][(![]+
[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+([![]]+
[][[]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]](([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(!
[]+[])[+!+[]]+(!![]+[])[+[]]][([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+
[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]
+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(![]+[])[!+[]+!+
[]+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]+([][[]]+[])[+[]]+([][(![]+[])[+[]]+(![]+
[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+
(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+
[+[]]]+(!![]+[])[+!+[]]]((!![]+[])[+!+[]]+(!![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]
+([][[]]+[])[+[]]+(!![]+[])[+!+[]]+([][[]]+[])[+!+[]]+(![]+[+[]])[([![]]+[][[]])
[+!+[]+[+[]]]+(!![]+[])[+[]]+(![]+[])[+!+[]]+(![]+[])[!+[]+!+[]]+([![]]+[][[]])[+!
+[]+[+[]]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+
[])[!+[]+!+[]+!+[]]+(![]+[])[!+[]+!+[]+!+[]]]()[+!+[]+[+[]]]+![]+(![]+[+[]])[([!
[]]+[][[]])[+!+[]+[+[]]]+(!![]+[])[+[]]+(![]+[])[+!+[]]+(![]+[])[!+[]+!+[]]+([![]]
+[][[]])[+!+[]+[+[]]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+
[])[+[]]]+[])[!+[]+!+[]+!+[]]+(![]+[])[!+[]+!+[]+!+[]]]()[+!+[]+[+[]]])()[([][(![]
+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+
(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+
[+[]]]+([][[]]+[])[+!+[]]+(![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]
+([][[]]+[])[+[]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])
[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+
[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]((![]+[+[]])
[([![]]+[][[]])[+!+[]+[+[]]]+(!![]+[])[+[]]+(![]+[])[+!+[]]+(![]+[])[!+[]+!+[]]+
([![]]+[][[]])[+!+[]+[+[]]]+([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+
(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(![]+[])[!+[]+!+[]+!+[]]]()[+!+[]+[+[]]])+[])
[+!+[]])+([]+[])[(![]+[])[+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])
[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(!![]+[])[+[]]+([][(![]+
[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+
(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+
[+[]]]+(![]+[])[!+[]+!+[]]+(!![]+[][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+
[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]()[+!+[]+[!+[]+!+[]]])()
```
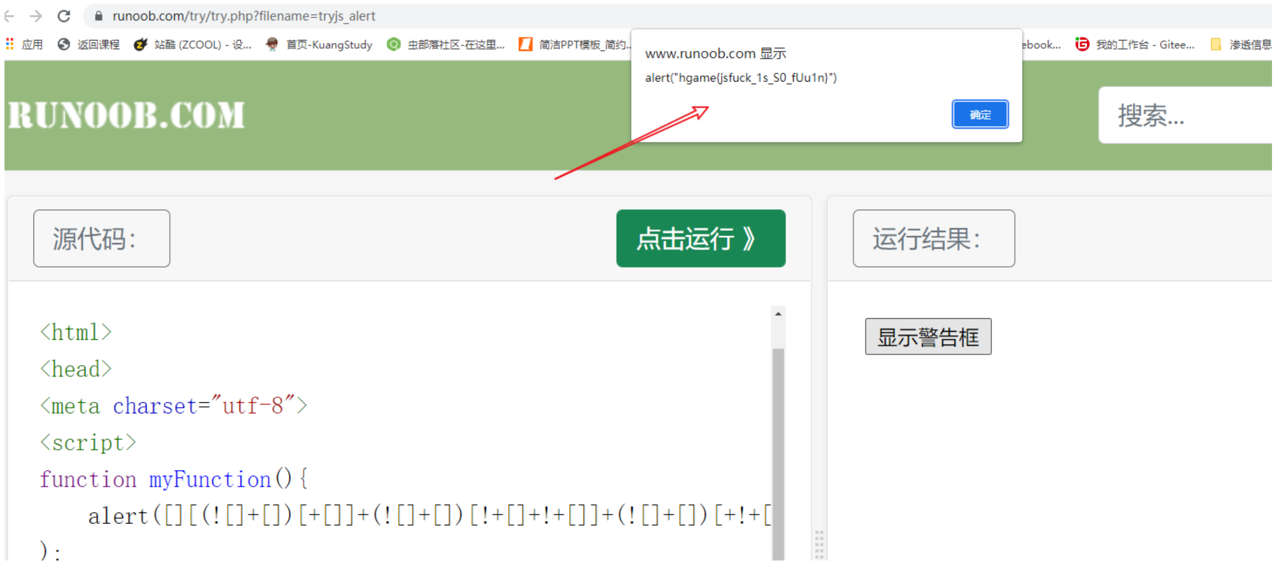

```
使用alert()函数就可以实现弹窗得到flag
```



runoob.com/try/try.php?filename=tryjs_alert

www.runoob.com 显示

alert("hgame{jsfuck_1s_S0_fUu1n}")

```
<html>
<head>
<meta charset="utf-8">
<script>
function myFunction(){
    alert([][(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[
);
```