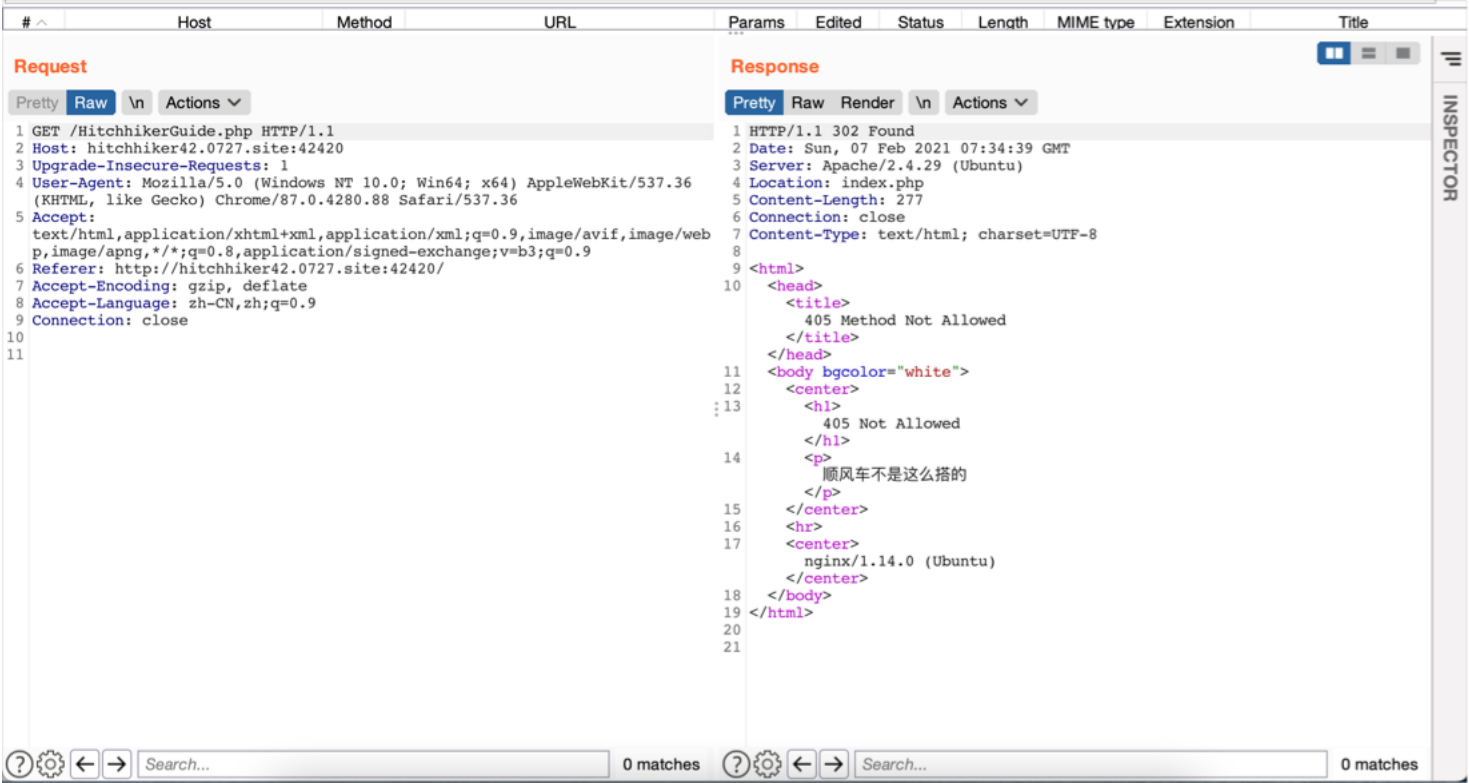
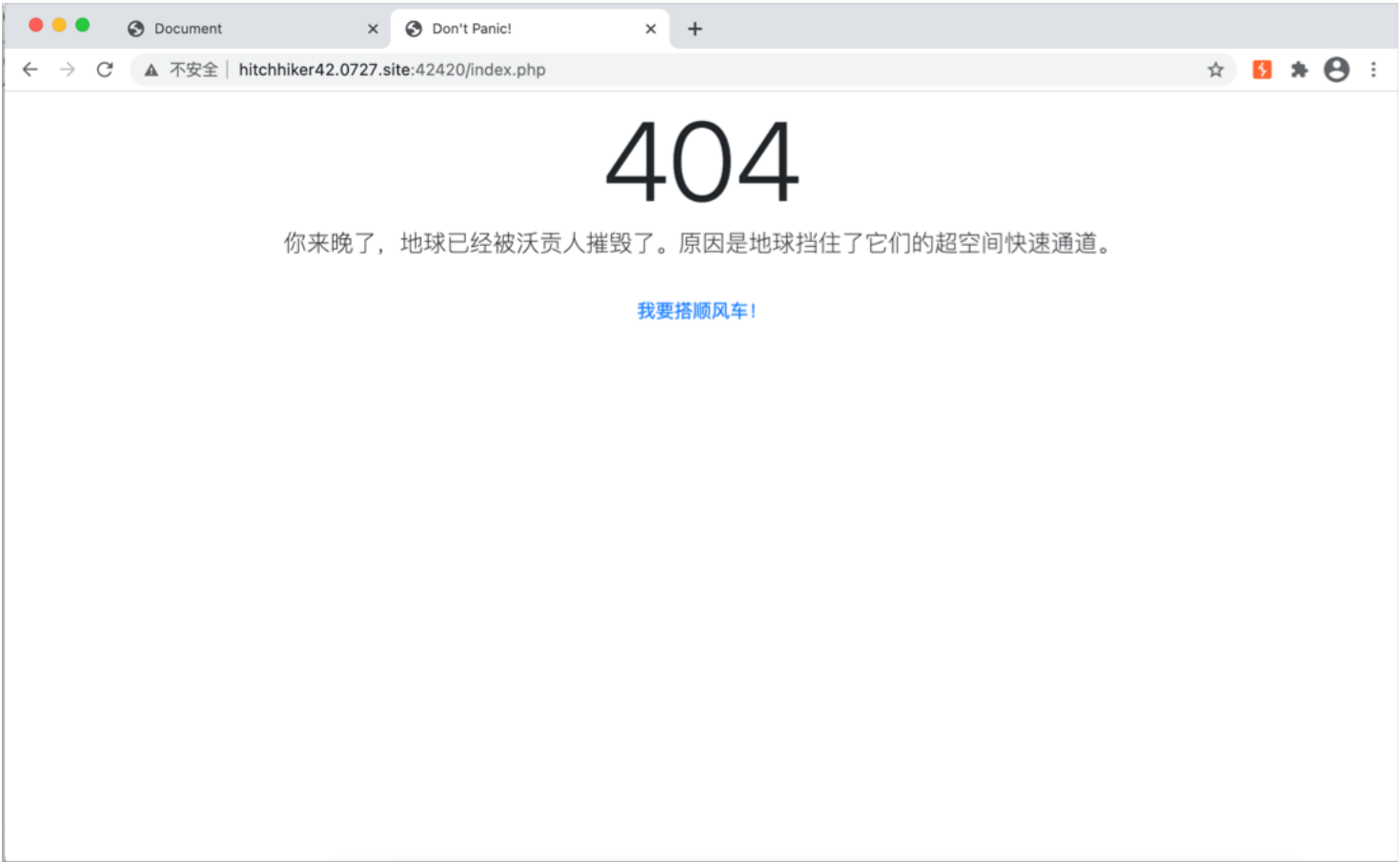
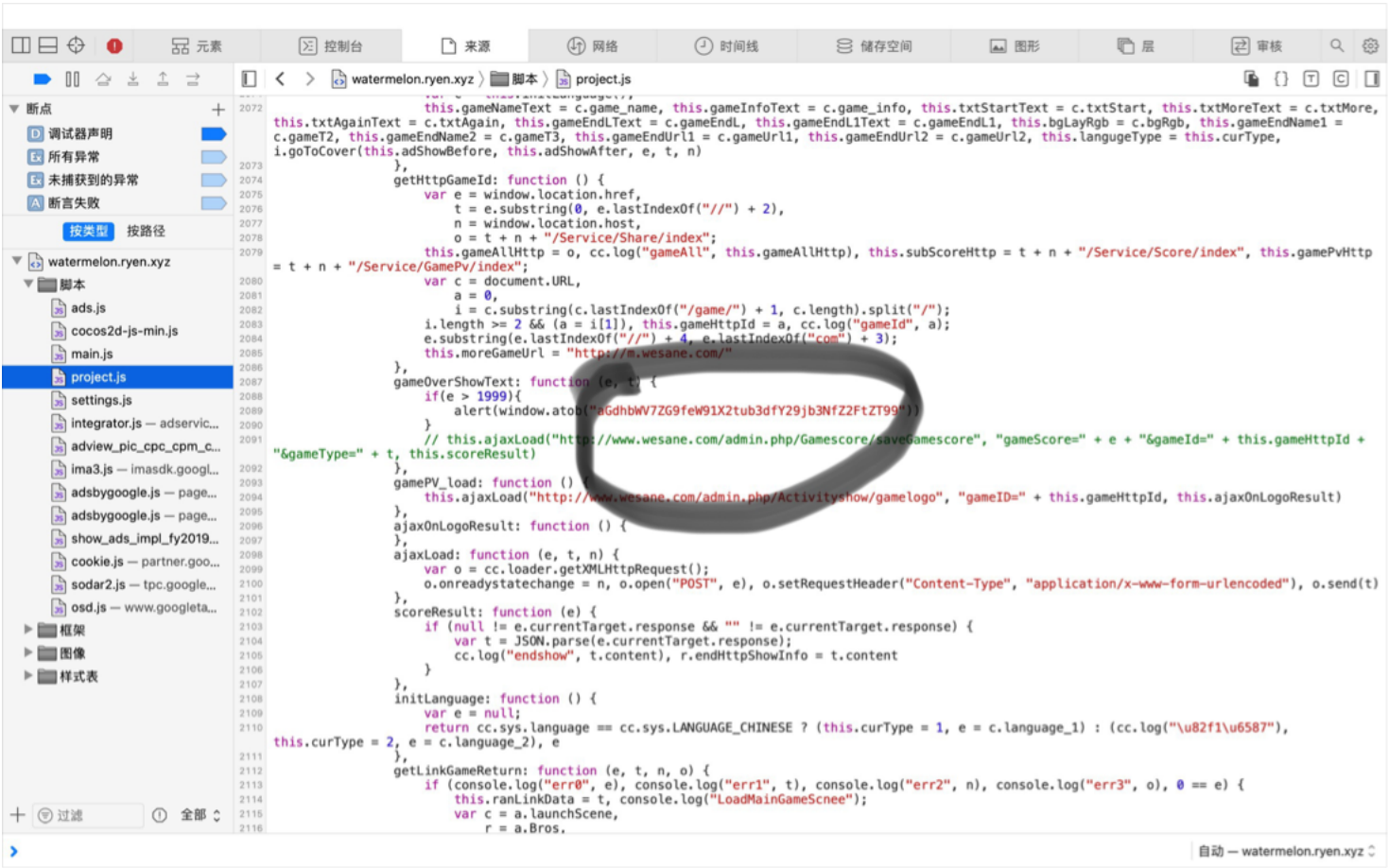


WEB

第一题，访问得到该页面。点超链接没反应，打开bp发现是 302 临时重定向，改为 post，加 referer 头，一波操作得到 flag。



第二题，是一个js写的小游戏，玩游戏过程中没有任何拦到任何 http 请求，那么 flag 一定在 js 代码中，仔细阅读得到。经 base64 解码得到 flag。



第四题，做完了一百道高数题得道 flag。考点应该是 cookie 伪造，只知道前面一段是 base64 码，后面的加密手段没有解出来，不影响拿 flag。

MISC

第一题，依次经过 base64，base32，base16 解码，得到 flag。
第三题，从 wireshark 导出目标文件，发现打不开，用 pngcheck，得知 crc32 不正确，应该是图片的大小被改了，用一个 python 程序算出原图的实际大小，修改，图片打开成功，flag 就在最下面，可是 1 和 l 竟然分不清，提交的时候出了问题。

http

No.	Time	Source	Destination	Protocol	Length	Info
914	7.918356918	192.168.43.199	192.168.43.146	HTTP	460	GET /galaxy.png HTTP/1.1
1149	7.972928852	192.168.43.146	192.168.43.199	HTTP	30233	HTTP/1.1 200 OK (PNG)
1625	15.644752030	192.168.43.199	14.215.177.185	HTTP	1105	GET /i?tn=baiduimage&ps=1&ct=201326592&lm=-1&cl=2&nc=1&ie=utf-8&word=galaxy+wallpaper HTTP/1.1
1630	15.715488340	14.215.177.185	192.168.43.199	HTTP	469	HTTP/1.1 301 Moved Permanently (text/html)
1636	15.804864101	192.168.43.199	14.215.177.185	HTTP	1167	GET /search/index?tn=baiduimage&ps=1&ct=201326592&lm=-1&cl=2&nc=1&ie=utf-8&word=galaxy+wallpaper
1638	15.867903377	14.215.177.185	192.168.43.199	HTTP	491	HTTP/1.1 301 Moved Permanently (text/html)

Expand Subtrees

Collapse Subtrees

Expand All

Collapse All

Apply as Column

Apply as Filter

Prepare as Filter

Conversation Filter

Colorize with Filter

Follow

Copy

Show Packet Bytes...

Export Packet Bytes...

Wiki Protocol Page

Filter Field Reference

Protocol Preferences

Decode As...

Go to Linked Packet

Show Linked Packet in New Window

> Frame 1149: 30233 bytes on wire (241864 bits) on interface eth0, id 0

> Ethernet II, Src: IntelCor_c6:1d:c0:7b:a8:5f:af (8a:0c:7b:a8:5f:af)

> Internet Protocol Version 4, Src: 192.168.43.146, Destination: 192.168.43.199

> Transmission Control Protocol, Src Port: 54472, Dest Port: 80, Seq: 4718740, Ack: 407, Len: 30179

> [136 Reassembled TCP Segments (4748771 bytes) shown below]

> Hypertext Transfer Protocol

> HTTP/1.1 200 OK\r\n

> Host: 192.168.43.146\r\n

> Date: Fri, 29 Jan 2021 14:59:12 GMT\r\n

> Connection: close\r\n

> Content-Type: image/png\r\n

> Content-Length: 4748771\r\n

> \r\n

> [HTTP response 1/1]

> [Time since request: 0.054571934 seconds]

> [Request in frame: 914]

> [Request URI: http://192.168.43.146/galaxy.png]

> File Data: 4748771 bytes

> Portable Network Graphics

Frame (30233 bytes) | Reassembled TCP (4748918 bytes)

File Data (http.file_data), 4,748,771 bytes

Packets: 2864 · Displayed: 6 (0.2%)

Profile: Default

```
import os
import binascii
import struct

crcbp = open("/Users/tianyuzhan/Downloads/asqw.png", "rb").read() #打开图片
crc32frombp = int(crcbp[29:33].hex(), 16) #读取图片中的CRC校验值
print(crc32frombp)

for i in range(10000): #宽度1-4000进行枚举
    for j in range(10000): #高度1-4000进行枚举
        data = crcbp[12:16] + \
            struct.pack('>i', i) + struct.pack('>i', j) + crcbp[24:29]
        crc32 = binascii.crc32(data) & 0xffffffff
        #print(crc32)
        if(crc32 == crc32frombp): #计算当图片大小为i:j时的CRC校验值，与图片中的CRC比较，当相同，则图片大小已经确定
            print(i, j)
            print('hex:', hex(i), hex(j))
```