# Hitchhiking\_in\_the\_Galaxy

<h1>405 Not Allowed</h1>
<原风车不是这么搭的</p>

<center>nginx/1.14.0 (Ubuntu)



F12显示302**重定向** 

### 更换POST方式

<hr>>

</html>

```
POST /HitchhikerGuide.php HTTP/1.1
Host: hitchhiker42.0727.site:42420
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:85.0)
       Gecko/20100101 Firefox/85.0
       Accept:
       text/html, application/xhtml+xml, application/xml; q=0.9, image/webp, */*; q=0
       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: keep-alive
       Referer: http://hitchhiker42.0727.site:42420/
       Upgrade-Insecure-Requests: 1
HTTP/1. 1 200 0K
Date: Thu, 04 Feb 2021 08:31:52 GMT
Server: Apache/2.4.29 (Ubuntu)
Vary: Accept-Encoding
Content-Length: 91
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html: charset=UTF-8
     只有使用"无限非概率引擎"(Infinite Improbability Drive)才能访问这里~
```

#### 替换User-Agent: Infinite Improbability Drive Gecko

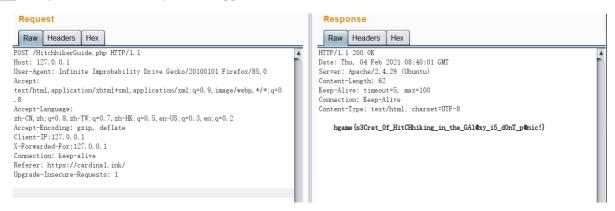
```
Request
                                                                                                   Response
 Raw Headers Hex
                                                                                                    Raw Headers Hex
POST /HitchhikerGuide.php HTTP/1.1
Host: hitchhiker42.0727.site:42420
                                                                                                 HTTP/1.1 200 0K
Date: Thu, 04 Feb 2021 08:34:23 GMT
User-Agent: Infinite Improbability Drive Gecko/20100101 Firefox/85.0
                                                                                                  Server: Apache/2.4.29 (Ubuntu)
                                                                                                  Vary: Accept-Encoding
                                                                                                  Content-Length: 148
text/html, application/xhtml+xml, application/xml; q=0.9, image/webp, */*; q=0
                                                                                                  Keep-Alive: timeout=5, max=100
                                                                                                  Connection: Keep-Alive
Accept_Eanguage.

Accept_Eanguage.

Accept_Encoding: gzip, deflate
                                                                                                 Content-Type: text/html; charset=UTF-8
Connection: keep-alive
                                                                                                 pp. Mag-y · a href="https://github.com/wuhan005">茄子</a>特别要求: 你得从他的<a href="https://cardinal.ink/">Cardinal</a>过来
Referer: http://hitchhiker42.0727.site:42420/
Upgrade-Insecure-Requests: 1
```



设置host、X-Forwarded-For、Client-IP为127.0.0.1



#### watermelon

## 宝藏走私者

上车获得

### 智商检测鸡

#### 抓包分析:

```
POST /api/verify HTTP/1.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:85.0) Gecko/20100101 Firefox/85.0
Accept: application/json, text/javascript, */*; q=0.01
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
                                                                                                                   Content-Type: application/json
                                                                                                                   Content-Length: 17
Accept-Encoding: gzip, deflate
Content-Type: application/json;charset=utf-8
                                                                                                                   Content-Type: application/json
                                                                                                                   Vary: Cookie
Content-Length: 14
                                                                                                                  Server: Werkzeug/1.0.1 Python/3.8.7
Date: Thu, 04 Feb 2021 08:44:45 GMT
Origin: http://r4u.top:5000
Connection: keep-alive
Referer: http://r4u.top:5000/
                                                                                                                    {"result":false}
Cookie: session=eyJzb2x2aW5nIjoxfQ.YBtykA.fKsMAgCV1eNuFQQhhBgdV1EeD5I
{"answer":111}
```

查看fuckmath.js 发现是后端验证答案且修改solving值并不能拿到flag

发现题目由后端发往前端

于是想到js脚本获取题目计算验证。尝试了一下有点困难。转换思维用python BeautifulSoup 和 requests两个模块,写到一半发现给的资料里刚是介绍这两个模块,看来是走对了。

期间因为cookie错误,又去重新仔细看了cookie的介绍。最后拿到flag

```
題都做不完还想要Flag?大学生就这就这就这就这?

第K题: 100
cookies1:
{}
44
35
11
17
-2567.5

cookies2:
{'session': 'eyJzb2x2aW5nIjoxMDB9.YBut3A.rj-jJmr7obaZQu6FW0T2WsbQ3w4'}
{'result': True}
{}

cookies3:
{}
100

cookies4
{}
hgame{3very@ne_H4tes_Math}

第K题: 101
cookies1:

Yeah it's have
```

```
from requests import cookies
from sympy import *
from bs4 import BeautifulSoup
import requests
import json
Question_url="http://r4u.top:5000/api/getQuestion"#问题
verify_url="http://r4u.top:5000/api/verify"#验证
Stutis_url="http://r4u.top:5000/api/getStatus"#进程
Flag_url="http://r4u.top:5000/api/getFlag"#flag
cookies1={}
cookies2={}
cookies3={}
cookies4={}
def function(a,b,c,d):
   x=symbols('x')
    f=a*x+b
    return integrate(f,(x,c,d))
k=1
#获取题目, 计算答案
while(true):
    print("\n")
    print("第K题: "+str(k))
    cookies1={}
    r=requests.get(Question_url,cookies=cookies2)
    cookies1 = r.cookies.get_dict()
    print("cookies1:")
    print(cookies1)
    r.encoding='utf-8'
    html=r.text
    soup=BeautifulSoup(html, "html.parser")
```

```
iteams=soup.find_all('mn')
             for i in iteams:
                          print(i.string)
             a=int(iteams[2].string)
             b=int(iteams[3].string)
             c=int(iteams[0].string)
             d=int(iteams[1].string)
             answer=float(function(a,b,-c,d))
             print(answer)
             answer=str(answer)
             adata={'answer':answer}
             aheaders={'Content-Type': 'application/json'}
   r = requests.post(verify\_url,headers=aheaders,data=json.dumps(adata),cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies=cookies
ies2)
             cookies2=r.cookies.get_dict()
             print("\n")
             print("cookies2:")
             print(cookies2)
             result=json.loads(r.text)
             print(result)
#查看进度
            print(cookies3)
             r=requests.get(Stutis_url,cookies=cookies2)
             cookies3=r.cookies.get_dict()
             print("\n")
             print("cookies3:")
             print(cookies3)
             sol=json.loads(r.text)
             print(sol['solving'])
#获取flag
             r=requests.get(Flag_url,cookies=cookies2)
             cookies4=r.cookies.get_dict()
             print("\n")
             print("cookies4")
             print(cookies4)
             sol=json.loads(r.text)
             print(sol['flag'])
             if(k \le 100):
                          k=k+1
             else:
                          break
```