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# -*- coding: utf-8 -*-
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# @Date : 2021/11/11
# version: Python 3.9.2
'''
```

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```
import requests
import random
import time
from bs4 import BeautifulSoup
import os
```

```
path = "D:\\userdata\\download\\Pb\\" #下载后的 PDF 存放的文件夹
if os.path.exists(path) == False:
    os.mkdir(path) #20210607 更新，创建保存下载文章的文件夹
f = open("D:\\userdata\\download\\Pb.txt", "r", encoding="utf-8-sig") #存放 DOI 码
的.txt 文件中，每行存放一个文献的 DOI 码，完毕须换行（最后一个也须换行！）
head = {
    'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.117 Safari/537.36'
} #20210607 更新，防止 HTTP403 错误
for line in f.readlines():
    line = line[:-1] #去换行符
    #url = "https://www.sci-hub.pl/" + line + "#" #sci hub 的 DOI 码检索 url 这个
地址已经失效了
    url = "https://www.sci-hub.ren/" + line + "#" #20210515 更新：现在换成这个 sci
hub 检索地址
    k = random.randint(5, 20)
    print("k=", k)
    time.sleep(k) #2022/9/14
    try:
        download_url = "" #20211111 更新
        r = requests.get(url, headers = head)
        r.raise_for_status()
        r.encoding = r.apparent_encoding
        soup = BeautifulSoup(r.text, "html.parser")
        #download_url = "https:" + str(soup.div.ul.find(href="#")).split("href=")[-
```

```

1].split(".pdf")[0] + ".pdf" #寻找出存放该文献的 pdf 资源地址（该检索已失效）
    if soup.iframe == None: #20211111 更新
        download_url = "https:" + soup.embed.attrs["src"] #20211111 更新
    else:
        download_url = soup.iframe.attrs["src"] #20210515 更新
    print(line + " is downloading...\n --The download url is: " + download_url)
    download_r = requests.get(download_url, headers = head)
    download_r.raise_for_status()
    with open(path + line.replace("/", "_") + ".pdf", "wb+") as temp:
        temp.write(download_r.content)
except:
    with open("Pberror.txt", "a+") as error:
        error.write(line + "\n")
        if "https://" in download_url:
            error.write(" --The download url is: " + download_url + "\n\n")
else:
    download_url = "" #20210801 更新
    print(line + " download successfully.\n")
f.close()

```