

In [20]:

```
!pip install beautifulsoup4
```

Requirement already satisfied: beautifulsoup4 in c:\WprogramdataWanaconda3\lib\site-packages (4.7.1)

Requirement already satisfied: soupsieve>=1.2 in c:\WprogramdataWanaconda3\lib\site-packages (from beautifulsoup4) (1.8)

In [21]:

```
!pip install requests
```

Requirement already satisfied: requests in c:\WprogramdataWanaconda3\lib\site-packages (2.21.0)

Requirement already satisfied: certifi>=2017.4.17 in c:\WprogramdataWanaconda3\lib\site-packages (from requests) (2019.3.9)

Requirement already satisfied: urllib3<1.25,>=1.21.1 in c:\WprogramdataWanaconda3\lib\site-packages (from requests) (1.24.1)

Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\WprogramdataWanaconda3\lib\site-packages (from requests) (3.0.4)

Requirement already satisfied: idna<2.9,>=2.5 in c:\WprogramdataWanaconda3\lib\site-packages (from requests) (2.8)

In [4]:

```
id => #
class => .

<div id="row"> => div #row
<div class="row"> => div.row
<div id="1">
    <div id="2">      => div > div, div div
        <div id="3">
            <span>
                div > div, id=2 id= 3
                div#1 > div, id=2

        div + span
```

File "<ipython-input-4-f94f6171dbe1>", line 1

```
id => #
    ^
```

SyntaxError: invalid syntax

In [6]:

```
html = """
<html>
<head></head>
<body>
<div id="result">
<p class="row">
<a class="red">go to page1</a>
<a class="blue">go to page2</a>
</p>
</div>
</body>
</html>
"""
```

In [8]:

```
from bs4 import BeautifulSoup
```

```
dom = BeautifulSoup(html, "lxml")
```

In [13]:

```
print(type(dom.select("a")))
print(dom.select("a.red"))
print(dom.select("a + a"))
```

```
<class 'list'>
[<a class="red">go to page1</a>]
[<a class="blue">go to page2</a>]
```

In [22]:

```
import requests
```

```
html = download("http://pythonscraping.com/pages/page3.html")
exercise = BeautifulSoup(html.text, "lxml")
```

In [34]:

```
exercise.select("td > img")
```

Out[34]:

```
[,
,
,
,
]
```

In [23]:

```
def download(url, params={}, retries=3):
    resp = None

    header = {"user-agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML
L, like Gecko) Chrome/74.0.3729.108 Safari/537.36"}

    try:
        resp = requests.get(url, params=params, headers = header)
        resp.raise_for_status()
    except requests.exceptions.HTTPError as e:
        if 500 <= e.response.status_code < 600 and retries > 0:
            print(retries)
            resp = download(url, params, retries - 1)
        else:
            print(e.response.status_code, "\n")
            print(e.response.reason, "\n")
            print(e.request.headers, "\n")

    return resp
```

In [25]:

```
html = download("https://www.google.com/search", {"q": "박보영"})
```

In [28]:

```
google = BeautifulSoup(html.text, "lxml")
```

In [30]:

```
len(google.select(".r > a"))
```

Out[30]:

8

In [31]:

```
[_["href"] for _ in google.select(".r > a")]
```

Out[31]:

```
['https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81',
 'https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81%EC%9D%98_%EC%9E%91%ED%
92%88_%EB%AA%A9%EB%A1%9D',
 'https://namu.wiki/w/%EB%B0%95%EB%B3%B4%EC%98%81',
 'https://www.msn.com/ko-kr/entertainment/news/%EB%B0%95%EB%B3%B4%EC%98%81-tvn-%E
B%93%9C%EB%9D%BC%EB%A7%88-%EC%96%B4%EB%B9%84%EC%8A%A4-%EC%97%AC%EC%A3%BC%EC%9D%B8%
EA%B3%B5/ar-BBLZzvH',
 'https://twitter.com/hashtag/%EB%B0%95%EB%B3%B4%EC%98%81',
 'https://www.hankyung.com/entertainment/article/201905030904H',
 'https://news.joins.com/article/22895953',
 'https://www.mk.co.kr/star/hot-issues/view/2019/05/293931/']
```

In [40]:

```
html = download("https://search.daum.net/search", {"q": "박보영"})
daum = BeautifulSoup(html.text, "lxml")
```

In [42]:

```
[_["href"] for _ in daum.select("div.wrap_tit > a")]
```

Out[42]:

```
['http://v.media.daum.net/v/20190507140359069?f=o',
 'http://v.media.daum.net/v/20190507175153358?f=o',
 'http://v.media.daum.net/v/20190507185002021?f=o',
 'http://v.media.daum.net/v/20190507175700537?f=o',
 'http://papa0717.tistory.com/223',
 'http://dudrms606.tistory.com/367',
 'http://adam24eve.tistory.com/858',
 'http://k3k2y.tistory.com/35',
 'https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81',
 'https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81%20%28%EB%B2%95%EC%A1%B
0%EC%9D%B8%29',
 'http://cafe.daum.net/subdued20club/ReHf/2280152?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://cafe.daum.net/subdued20club/ReHf/2282606?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://cafe.daum.net/ASMONAC0FC/gAVU/1243818?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://cafe.daum.net/ok1221/9Zdf/1524913?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://tip.daum.net/answer/54503481?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://tip.daum.net/answer/54767339?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://tip.daum.net/answer/55072609?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://tip.daum.net/answer/54866982?q=%EB%B0%95%EB%B3%B4%EC%98%81',
 'http://gall.dcinside.com/board/lists/?id=parkboyoun9',
 'http://cafe.daum.net/parkboyoun9fd',
 'http://channels.vlive.tv/FCE49/video',
 'http://www.bjc.or.kr/',
 'javascript:',
 'javascript:',
 'javascript:',
 'javascript:',
 'javascript:']
```

In [44]:

```
html = download("https://search.naver.com/search.naver", {"query": "박보영"})
naver = BeautifulSoup(html.text, "lxml")
```

In [51]:

```
print([_[["href"], _].text for _ in naver.select("dt > a")])
print(len(naver.select("dt > a")))
```

```
[('https://help.naver.com/support/alias/search/word/word_1.naver', '도움말'), ('https://music.naver.com/album/index.nhn?albumId=2500698', '영화 너의결혼식 ...'), ('https://music.naver.com/album/index.nhn?albumId=565464', '오 나의 귀신님 ...'), ('?where=nexearch&sm=tab_etc&query=%EC%96%B4%EB%B9%84%EC%8A%A4%EA%B3%A0%EC%84%B8%EC%97%B0', '고세연'), ('?where=nexearch&sm=tab_etc&query=%ED%9E%98%EC%8E%88%EC%97%A9%EC%9C%90%EB%8F%84%EB%B4%89%EC%88%9C%EB%8F%84%EB%B4%89%EC%88%9C', '도봉산'), ('https://m.post.naver.com/viewer/postView.nhn?volumeNo=19568466&memberNo=36645352&vType=VERTICAL', '배우 박보영, 반할 수밖에 없는 청순 러블리'), ('https://m.post.naver.com/viewer/postView.nhn?volumeNo=19813069&memberNo=25041664&vType=VERTICAL', '어비스' 박보영x안효섭, 케미에 벌써 전덕...복합장르 신기원...'), ('https://m.post.naver.com/viewer/postView.nhn?volumeNo=17970239&memberNo=23519771&vType=VERTICAL', '박보영에게 '무장해제' 당한 상대 배우들'), ('http://sports.chosun.com/news/ntype.htm?id=201905080100041210002631&servicedate=20190507', "'어비스' 박보영·안효섭, 현실친구→부활 비주역 재회 '스펙터클 전개'"), ('http://www.osen.co.kr/article/G1111136950', "'어비스' 박보영X안효섭, 추적자 강렬 변신..죽음 본격 추적[Oh!썬컷]'), ('http://www.dt.co.kr/contents.html?article_no=2019050702109919040003&ref=naver', '박보영, 안효섭과 한 지붕 아래 동거 시작[어비스 2화]'), ('http://sports.donga.com/3/all/20190507/95412193/1', '[DAY컷] '어비스' 박보영, 안효섭 목욕 영타? 티격태격 동거 시작'), ('https://cafe.naver.com/heidicafe/1241714', '어비스 박보영 패션 트렌치코트 예쁘네요~'), ('https://cafe.naver.com/imsanbu/44492596', '박보영 이런 모습도 있네요?'), ('https://cafe.naver.com/dieselmania/26934064', '드라마 어비스 제작발표회 박보영'), ('https://cafe.naver.com/momakakao/11285454', '박보영은 언제쯤 결혼을 할까요?'), ('https://cafe.naver.com/linearbeit/43556', '2019.04.29 박보영 소피 바디피트 팬사인회 현장'), ('https://namu.wiki/w/%EB%B0%95%EB%B3%B4%EC%98%81', '박보영 - 나무위키'), ('http://gall.dcinside.com/board/lists/?id=parkboyoung', '박보영 갤러리 - 디시인사이드'), ('https://movie.daum.net/person/main?personId=105244', '박보영'), ('https://kin.naver.com/qna/detail.nhn?d1id=3&dirId=3021401&docId=326457379&qb=67CV67007JiB&enc=utf8&section=kin&rank=1&search_sort=0&spq=1', '박보영vs한지민'), ('https://kin.naver.com/qna/detail.nhn?d1id=3&dirId=306&docId=325917258&qb=67CV67007JiB&enc=utf8&section=kin&rank=2&search_sort=0&spq=1', '제가 박보영 옛날 티아라 똑같은데 어'), ('https://kin.naver.com/qna/detail.nhn?d1id=3&dirId=31402&docId=322399276&qb=67CV67007JiB&enc=utf8&section=kin&rank=3&search_sort=0&spq=1', '박보영 이 사진 고화질 부탁 내공 5'), ('https://kin.naver.com/qna/detail.nhn?d1id=3&dirId=30104&docId=319183446&qb=67CV67007JiB&enc=utf8&section=kin&rank=4&search_sort=0&spq=1', '유라 vs 박보영'), ('https://blog.naver.com/shkwon1128?Redirect=Log&logNo=221530738046', '통해 부활한 박보영과 안효섭의 러블리스릴러 이야기'), ('https://blog.naver.com/js2y86?Redirect=Log&logNo=221454815826', '박보영 : 오 나의 귀신님 나봉선'), ('https://blog.naver.com/dlqlwm14?Redirect=Log&logNo=221529807195', '박보영 나이 단발 사진 키 알아보기'), ('https://blog.naver.com/lyj0088?Redirect=Log&logNo=221530708253', '어비스 드라마 인물관계도 등장인물 몇부작 줄거리 박보영 안효섭'), ('https://komartin.blog.me/221530734469', '어비스 드라마 인물관계도 & 줄거리 (박보영, 안효섭, 이성재...')]
```

In [53]:

```
html = download("https://www.naver.com/")
naver2 = BeautifulSoup(html.text, "lxml")
```

In [77]:

```
[_ .text for _ in naver2.select(".ah_roll_area li.ah_item .ah_k")]
```

Out[77]:

```
['하나경',
'울산대교',
'강은비',
'한서희',
'정용국',
'맥반석닭갈비',
'고양 창릉',
'생방송 오늘저녁',
'삼성바이오로직스',
'3기 신도시',
'이다해',
'어비스',
'부천 대장동',
'강이준',
'심재철',
'양의지',
'초면에 사랑합니다',
'규현',
'공민규',
'한선교']
```

In [78]:

```
seed = "http://example.webscraping.com/places/default/index/"
html = download(seed)
dom = BeautifulSoup(html.content, "lxml")
```

In [79]:

```
len(dom.select("a"))
```

Out[79]:

16

In [83]:

```
links = [_[["href"] for _ in dom.select("a")]]
# #은 inner link로 아무 동작 하지 않게 하는 것
```

In [85]:

```
len(links)
```

Out[85]:

16

In [86]:

```
#, / <- 애만 가져올 것, http, https
```

In [90]:

```
unseen = list()

for link in links:
    if link[0] == "/":
        print(link)
        newLink = requests.compat.urljoin(seed, link)
        if newLink not in unseen:
            unseen.append(newLink)

#         download(newLink)
#         dom = BeautifulSoup(html.content, "lxml")
#         print([_["href"] for _ in dom.select("a")])
#         break

/places/default/user/register?_next=/places/default/index
/places/default/user/login?_next=/places/default/index
/places/default/index
/places/default/search
/places/default/view/Afghanistan-1
/places/default/view/Aland-Islands-2
/places/default/view/Albania-3
/places/default/view/Algeria-4
/places/default/view/American-Samoa-5
/places/default/view/Andorra-6
/places/default/view/Angola-7
/places/default/view/Anguilla-8
/places/default/view/Antarctica-9
/places/default/view/Antigua-and-Barbuda-10
/places/default/index/1
```

In [96]:

```
len(seed), len(unseen) , len(link), len(newLink)
```

Out[96]:

(52, 15, 23, 53)

In [121]:

```
threshold = 3

def urlExtractor(seed, limit):
    if limit > threshold:
        return []

    html = download(seed)
    dom = BeautifulSoup(html.text, "lxml")

    links = [_["href"] for _ in dom.select("a") if _.has_attr("href")] #핵심

    unseen = list()

    for link in links:
        if len(link) > 1 and link[0] == "/":
            #print(link)
            newLink = requests.compat.urljoin(seed, link)
            if newLink not in unseen:
                unseen.append((newLink, limit+1))
            #         else:
            #             print("Skipped2", link)
        elif link.startswith("http"):
            unseen.append((link, limit+1))
        #         else:
        #             print("Skipped1", link)

    #     print("{0} [{1}].format(seed, len(unseen)))

    return unseen
```

In [102]:

```
import time
import random

seed = "http://example.webscraping.com/places/default/index/"

queue = urlExtractor(seed) # => unseen totally
seen = list()

while queue:
    seed = queue.pop(0)
    seen.append(seed)
    time.sleep(random.randint(1,3))
    links = urlExtractor(seed) #links는 unseen 겹치면 안되고, seen에 있으면 안됨. 이거 체크
    queue.extend([_ for _ in links if _ not in queue and _ not in seen])
    queue.extend(urlExtractor(seed))
```

```
/places/default/user/register?_next=/places/default/index
/places/default/user/login?_next=/places/default/index
/places/default/index
/places/default/search
/places/default/view/Afghanistan-1
/places/default/view/Aland-Islands-2
/places/default/view/Albania-3
/places/default/view/Algeria-4
/places/default/view/American-Samoa-5
/places/default/view/Andorra-6
/places/default/view/Angola-7
/places/default/view/Anguilla-8
/places/default/view/Antarctica-9
/places/default/view/Antigua-and-Barbuda-10
/places/default/index/1
/places/default/user/register
/places/default/user/login
/places/default/index
/places/default/search
/places/default/user/register
/places/default/user/login
/places/default/index
/places/default/search
429
```

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

429

TOO MANY REQUESTS

```
{'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.108 Safari/537.36', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive'}
```

In [126]:

```
html = download("https://www.google.com/search", {"q": "박보영"})
google2 = BeautifulSoup(html.content, "xml")
```

In [106]:

```
len(google2.select(".r > a"))
```

Out[106]:

8

In [127]:

```
queue = [(_["href"], 0) for _ in google2.select(".r > a")]
```

In [115]:

```
queue
```

Out[115]:

[]

In [128]:

```
seen = list()

while queue:
    #(URL, LIMIT)
    link = queue.pop(0)
    seen.append(link[0])
    links = urlExtractor(link[0], link[1])

    queueURL = [_[0] for _ in queue]

    queue.extend([_ for _ in links if _[0] not in queueURL and _ not in seen])

    print("{0} {1} [{2}].format(">"*link[1], link[0], len(links)))

# for link in queue:
#     seen.append(link[0])
#     links = urlExtractor(link[0], link[1])
#     html = download(link)
#     google2 = BeautifulSoup(html.content, "lxml")
#     print(link, len([_["href"] for _ in google2.select("a") if _.has_attr("href")]))
```

```
https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81 [820]
https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81%EC%9D%98_%EC%9E%91%ED%9
2%88_%EB%AA%A9%EB%A1%9D [385]
https://namu.wiki/w/%EB%B0%95%EB%B3%B4%EC%98%81 [1139]
https://www.msn.com/ko-kr/entertainment/news/%EB%B0%95%EB%B3%B4%EC%98%81-tvn-%EB%
93%9C%EB%9D%BC%EB%A7%88-%EC%96%B4%EB%B9%84%EC%8A%A4-%EC%97%AC%EC%A3%BC%EC%9D%B8%E
A%B3%B5/ar-BBLZzVh [47]
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> [https://ko.wikipedia.org/wiki/%EB%8A%91%EB%8C%80%EC%86%8C%EB%85%84\\_\(%EC%98%81%ED%99%94\)](https://ko.wikipedia.org/wiki/%EB%8A%91%EB%8C%80%EC%86%8C%EB%85%84_(%EC%98%81%ED%99%94)) [256]

> [https://ko.wikipedia.org/wiki/%ED%94%BC%EC%96%B4%EC%84%A0\\_%EC%A0%8A%EC%9D%80\\_%EC%98%81%ED%99%94\\_%ED%8E%98%EC%8A%A4%ED%8B%B0%EB%B2%8C](https://ko.wikipedia.org/wiki/%ED%94%BC%EC%96%B4%EC%84%A0_%EC%A0%8A%EC%9D%80_%EC%98%81%ED%99%94_%ED%8E%98%EC%8A%A4%ED%8B%B0%EB%B2%8C) [183]

> [https://ko.wikipedia.org/wiki/%EC%A1%B0%EC%84%B1%ED%9D%AC\\_\(%EC%98%81%ED%99%94\\_%EA%B0%90%EB%8F%85\)](https://ko.wikipedia.org/wiki/%EC%A1%B0%EC%84%B1%ED%9D%AC_(%EC%98%81%ED%99%94_%EA%B0%90%EB%8F%85)) [80]

> <https://ko.wikipedia.org/wiki/%ED%95%9C%EA%B5%AD%EC%98%81%ED%99%94%EC%95%84%EC%B9%B4%EB%8D%B0%EB%AF%B8> [102]

> [https://ko.wikipedia.org/wiki/%ED%94%BC%EB%81%93%EB%8A%94\\_%EC%B2%AD%EC%B6%98](https://ko.wikipedia.org/wiki/%ED%94%BC%EB%81%93%EB%8A%94_%EC%B2%AD%EC%B6%98) [142]

> [https://ko.wikipedia.org/wiki/%ED%94%BC%EB%81%93%EB%8A%94\\_%EC%B2%AD%EC%B6%98](https://ko.wikipedia.org/wiki/%ED%94%BC%EB%81%93%EB%8A%94_%EC%B2%AD%EC%B6%98) [142]

> [https://ko.wikipedia.org/wiki/%EC%9D%B4%EC%A2%85%EC%84%9D\\_\(%EB%B0%B0%EC%9A%B0\)](https://ko.wikipedia.org/wiki/%EC%9D%B4%EC%A2%85%EC%84%9D_(%EB%B0%B0%EC%9A%B0)) [1202]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=7> [34]

> [https://ko.wikipedia.org/wiki/%EC%9D%B4%ED%95%B4%EC%98%81\\_\(%EC%98%81%ED%99%94\\_%EA%B0%90%EB%8F%85\)](https://ko.wikipedia.org/wiki/%EC%9D%B4%ED%95%B4%EC%98%81_(%EC%98%81%ED%99%94_%EA%B0%90%EB%8F%85)) [212]

> [https://ko.wikipedia.org/wiki/%EA%B2%BD%EC%84%B1%ED%95%99%EA%B5%90:\\_%EC%82%AC%E8%B9%9B%EC%A7%84\\_%EC%86%8C%EB%85%80%EB%93%A4](https://ko.wikipedia.org/wiki/%EA%B2%BD%EC%84%B1%ED%95%99%EA%B5%90:_%EC%82%AC%E8%B9%9B%EC%A7%84_%EC%86%8C%EB%85%80%EB%93%A4) [108]

> [https://ko.wikipedia.org/wiki/%EC%9D%B4%ED%95%B4%EC%98%81\\_\(%EC%98%81%ED%99%94\\_%EA%B0%90%EB%8F%85\)](https://ko.wikipedia.org/wiki/%EC%9D%B4%ED%95%B4%EC%98%81_(%EC%98%81%ED%99%94_%EA%B0%90%EB%8F%85)) [212]

> [https://ko.wikipedia.org/wiki/%EA%B2%BD%EC%84%B1%ED%95%99%EA%B5%90:\\_%EC%82%AC%E8%B9%9B%EC%A7%84\\_%EC%86%8C%EB%85%80%EB%93%A4](https://ko.wikipedia.org/wiki/%EA%B2%BD%EC%84%B1%ED%95%99%EA%B5%90:_%EC%82%AC%E8%B9%9B%EC%A7%84_%EC%86%8C%EB%85%80%EB%93%A4) [108]

> [https://ko.wikipedia.org/wiki/%EC%98%A4\\_%EB%82%98%EC%9D%98\\_%EA%B7%80%EC%8B%A0%E8%B8%98](https://ko.wikipedia.org/wiki/%EC%98%A4_%EB%82%98%EC%9D%98_%EA%B7%80%EC%8B%A0%E8%B8%98) [283]

> <https://ko.wikipedia.org/wiki/%EC%9D%91%EB%8B%B5%ED%95%98%EB%9D%BC1994> [752]

> [https://ko.wikipedia.org/wiki/%EB%AF%B8%EC%83%9D\\_\(%EB%93%9C%EB%9D%BC%EB%A7%88\)](https://ko.wikipedia.org/wiki/%EB%AF%B8%EC%83%9D_(%EB%93%9C%EB%9D%BC%EB%A7%88)) [429]

> [https://ko.wikipedia.org/wiki/%EC%98%A4\\_%EB%82%98%EC%9D%98\\_%EA%B7%80%EC%8B%A0%E8%B8%98](https://ko.wikipedia.org/wiki/%EC%98%A4_%EB%82%98%EC%9D%98_%EA%B7%80%EC%8B%A0%E8%B8%98) [283]

> [https://ko.wikipedia.org/wiki/%EC%98%A4\\_%EB%82%98%EC%9D%98\\_%EA%B7%80%EC%8B%A0%E8%B8%98](https://ko.wikipedia.org/wiki/%EC%98%A4_%EB%82%98%EC%9D%98_%EA%B7%80%EC%8B%A0%E8%B8%98) [283]

> [https://ko.wikipedia.org/wiki/%EB%8F%8C%EC%97%B0%EB%B3%80%EC%9D%B4\\_\(%EC%98%81%ED%99%94\)](https://ko.wikipedia.org/wiki/%EB%8F%8C%EC%97%B0%EB%B3%80%EC%9D%B4_(%EC%98%81%ED%99%94)) [116]

> [https://ko.wikipedia.org/wiki/%EC%9D%B4%EA%B4%91%EC%88%98\\_\(%EB%B0%B0%EC%9A%B0\)](https://ko.wikipedia.org/wiki/%EC%9D%B4%EA%B4%91%EC%88%98_(%EB%B0%B0%EC%9A%B0)) [806]

> [https://ko.wikipedia.org/wiki/%EA%B5%AD%EA%B0%80%EC%A0%95%EB%B3%B4%EC%9B%90\\_%EC%97%AC%EB%A1%A0\\_%EC%A1%B0%EC%9E%91\\_%EC%82%AC%EA%B1%B4](https://ko.wikipedia.org/wiki/%EA%B5%AD%EA%B0%80%EC%A0%95%EB%B3%B4%EC%9B%90_%EC%97%AC%EB%A1%A0_%EC%A1%B0%EC%9E%91_%EC%82%AC%EA%B1%B4) [2100]

> [https://ko.wikipedia.org/wiki/CJ\\_E%26M](https://ko.wikipedia.org/wiki/CJ_E%26M) [643]

> [https://ko.wikipedia.org/wiki/%ED%86%A0%EB%A1%A0%ED%86%A0\\_%EA%B5%AD%EC%A0%9C\\_%EC%98%81%ED%99%94%EC%A0%9C](https://ko.wikipedia.org/wiki/%ED%86%A0%EB%A1%A0%ED%86%A0_%EA%B5%AD%EC%A0%9C_%EC%98%81%ED%99%94%EC%A0%9C) [207]

> <https://ko.wikipedia.org/wiki/%EC%97%B4%EC%A0%95%EA%B0%99%EC%9D%80%EC%86%8C%EB%A6%AC%ED%95%98%EA%B3%A0%EC%9E%88%EB%84%A4> [111]

> [https://ko.wikipedia.org/wiki/%EC%97%B4%EC%A0%95\\_%EA%B0%99%EC%9D%80\\_%EC%86%8C%EB%A6%AC%ED%95%98%EA%B3%A0\\_%EC%9E%88%EB%84%A4](https://ko.wikipedia.org/wiki/%EC%97%B4%EC%A0%95_%EA%B0%99%EC%9D%80_%EC%86%8C%EB%A6%AC%ED%95%98%EA%B3%A0_%EC%9E%88%EB%84%A4) [88]

> <https://ko.wikipedia.org/wiki/%ED%95%9C%EA%B5%AD%EA%B0%A4%EB%9F%BD> [62]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=8> [34]

> [https://ko.wikipedia.org/wiki/%ED%9E%98%EC%8E%88%EC%97%AC%EC%9E%90\\_%EB%8F%84%EB%B4%89%EC%88%9C](https://ko.wikipedia.org/wiki/%ED%9E%98%EC%8E%88%EC%97%AC%EC%9E%90_%EB%8F%84%EB%B4%89%EC%88%9C) [416]

> [https://ko.wikipedia.org/wiki/%EC%A7%80%EC%88%98\\_\(%EB%B0%B0%EC%9A%B0\)](https://ko.wikipedia.org/wiki/%EC%A7%80%EC%88%98_(%EB%B0%B0%EC%9A%B0)) [191]

> <https://ko.wikipedia.org/wiki/%EB%B0%95%ED%98%95%EC%8B%9D> [834]

> [https://ko.wikipedia.org/wiki/%ED%9E%98%EC%8E%88%EC%97%AC%EC%9E%90\\_%EB%8F%84%EB%B4%89%EC%88%9C](https://ko.wikipedia.org/wiki/%ED%9E%98%EC%8E%88%EC%97%AC%EC%9E%90_%EB%8F%84%EB%B4%89%EC%88%9C) [416]

> [9E%90 \[446\]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=9> \[34\]

> \[https://ko.wikipedia.org/wiki/%EC%86%8C%EC%85%9C\\\_%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%81%AC\\\_%EC%84%9C%EB%B9%84%EC%8A%A4\]\(https://ko.wikipedia.org/wiki/%EC%86%8C%EC%85%9C\_%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%81%AC\_%EC%84%9C%EB%B9%84%EC%8A%A4\) \[360\]

> <https://ko.wikipedia.org/wiki/%EA%B9%80%ED%95%B4%EC%88%99> \[709\]

> <https://ko.wikipedia.org/wiki/%EC%B2%AD%EB%A3%A1%EC%98%81%ED%99%94%EC%83%81> \[191\]

> <https://ko.wikipedia.org/wiki/%EA%B3%BC%EC%86%8D%EC%8A%A4%EC%BA%94%EB%93%A4> \[164\]

> <https://ko.wikipedia.org/wiki/%EA%B3%BC%EC%86%8D%EC%8A%A4%EC%BA%94%EB%93%A4> \[164\]

> <https://ko.wikipedia.org/wiki/%EB%8A%91%EB%8C%80%EC%86%8C%EB%85%84> \[55\]

> \[https://ko.wikipedia.org/wiki/%EB%8F%8C%EC%97%B0%EB%B3%80%EC%9D%B4\\\_\\(%EC%98%81%ED%99%94\\)\]\(https://ko.wikipedia.org/wiki/%EB%8F%8C%EC%97%B0%EB%B3%80%EC%9D%B4\_\(%EC%98%81%ED%99%94\)\) \[116\]

> <https://ko.wikipedia.org/wiki/%EC%9B%90%EB%B9%88> \[1272\]

> <https://ko.wikipedia.org/wiki/%EB%B0%95%ED%9A%A8%EC%8B%A0> \[657\]

> <https://ko.wikipedia.org/wiki/%EC%9B%90%EB%B9%88> \[1272\]

> \[https://ko.wikipedia.org/wiki/%ED%94%84%EB%A1%9C%ED%8F%AC%EC%A6%88\\\_\\(%EB%93%9C%E8%B9%9D%BC%EB%A7%88\\)\]\(https://ko.wikipedia.org/wiki/%ED%94%84%EB%A1%9C%ED%8F%AC%EC%A6%88\_\(%EB%93%9C%E8%B9%9D%BC%EB%A7%88\)\) \[125\]

> <https://ko.wikipedia.org/wiki/%EB%B0%95%ED%9A%A8%EC%8B%A0> \[657\]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=10> \[34\]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=11> \[34\]

> \[https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81%EC%9D%98\\\_%EC%88%98%EC%83%81\\\_%EB%B0%8F\\\_%ED%9B%84%EB%83%B4\\\_%EB%AA%A9%EB%A1%9D\]\(https://ko.wikipedia.org/wiki/%EB%B0%95%EB%B3%B4%EC%98%81%EC%9D%98\_%EC%88%98%EC%83%81\_%EB%B0%8F\_%ED%9B%84%EB%83%B4\_%EB%AA%A9%EB%A1%9D\) \[244\]

> <https://ko.wikipedia.org/w/index.php?title=%EB%B0%95%EB%B3%B4%EC%98%81&action=edit&section=12> \[34\]

> <http://entertain.naver.com/read?oid=117&aid=0000107683> \[221\]

> <http://media.daum.net/entertain/culture/newsview?newsid=20091221201110428> \[5\]

> <http://www.sisunnews.co.kr/news/articleView.html?idxno=30180> \[175\]

> <http://entertain.naver.com/read?oid=427&aid=0000000608> \[220\]

> <http://tvdaily.asiae.co.kr/read.php3?aid=1439969448963995002> \[85\]

> <http://media.daum.net/entertain/drama/newsview?newsid=20160603133010138> \[5\]

> <http://entertain.naver.com/read?oid=311&aid=0000706247> \[225\]

> <http://entertain.naver.com/read?oid=465&aid=0000002867> \[228\]

> <http://entertain.naver.com/read?oid=020&aid=0002215077> \[235\]

> <http://entertain.naver.com/read?oid=076&aid=0002069547> \[229\]

> <http://media.daum.net/entertain/enews/newsview?newsid=20080206094708959> \[5\]

> <http://www.ikoreadaily.co.kr/news/articleView.html?idxno=214444> \[155\]

> <http://maxmedia.maxmovie.com/126136> \[47\]

> <http://maxmedia.maxmovie.com/126137> \[47\]

> <http://entertain.naver.com/read?oid=312&aid=0000024101> \[229\]

> \[https://web.archive.org/web/20170216134707/http://www.ceci.co.kr/article/article\\\_detail.do?idx=1464\]\(https://web.archive.org/web/20170216134707/http://www.ceci.co.kr/article/article\_detail.do?idx=1464\) \[54\]](https://ko.wikipedia.org/wiki/%EB%AC%B4%EC%9E%90%EC%8B%9D_%EC%83%81%ED%8C%94%EC%</a></p></div><div data-bbox=)

d to establish a new connection: [WinError 10060] 연결된 구성원으로부터 응답이 없  
어 연결하지 못했거나, 호스트로부터 응답이 없어 연결이 끊어졌습니다'))

In [112]:

```
requests.compat.urlparse(queue[0])
```

Out[112]:

ParseResult(scheme='https', netloc='ko.wikipedia.org', path='/wiki/%EB%B0%95%EB%B  
3%B4%EC%98%81', params='', query='', fragment='')

In [142]:

```
tofind = "https://blog.naver.com/js2y86?Redirect=Log&logNo=221530397718"  
requests.compat.urlparse(tofind)[1]
```

Out[142]:

'blog.naver.com'

In [144]:

```
whos
```

Variable	Type	Data/Info
BeautifulSoup	type	<class 'bs4.BeautifulSoup'>
a	list	n=247
daum	BeautifulSoup	<!DOCTYPE html>Wn<html c!<...>제 -->Wn</body>Wn</html>Wn
dom	BeautifulSoup	<!--[if HTML5]><![endif]<...>f-->Wn</body>Wn</html>Wn
download	function	<function download at 0x0000027AFA6CED08>
exercise	BeautifulSoup	<html>Wn<head>Wn<style>Wn<...>/div>Wn</body>Wn</html>Wn
google	BeautifulSoup	<!DOCTYPE html>Wn<html it<...>I{</style></body></html>
google2	BeautifulSoup	<!DOCTYPE html>Wn<html it<...>I{</style></body></html>
html	Response	<Response [200]>
link	tuple	n=2
links	list	n=54
naver	BeautifulSoup	<!DOCTYPE html>Wn<html la<...> </script></body></html>
naver2	BeautifulSoup	<!DOCTYPE html>Wn<html la<...>ript>Wn</body>Wn</html>Wn
newLink	str	http://example.webscrapin<...>om/places/default/index/1
queue	list	n=29506
queueURL	list	n=29453
random	module	<module 'random' from 'C:<...>aconda3\lib\random.py'>
m.py'		
requests	module	<module 'requests' from '<...>requests\__init__.py'>
seed	str	http://example.webscrapin<...>com/places/default/search
seen	list	n=182
threshold	int	3
time	module	<module 'time' (built-in)>
tofind	str	https://blog.naver.com/js<...>ct=Log&logNo=221530397718
unseen	list	n=15
urlExtractor	function	<function urlExtractor at 0x0000027AFD4F3D08>

In [163]:

```
html = download("https://search.naver.com/search.naver", {"query": "박보영"}, {"where": "post"})
dom = BeautifulSoup(html.text, "lxml")
#print(naver2)
queue = [(["_href"], 0) for _ in dom.select("dt > a.sh_blog_title")]

#seed = "https://blog.naver.com/js2y86/221530397718"

threshold = 3

def urlExtractor(seed, limit):
    if limit > threshold:
        return []

    html = download(seed)
    dom = BeautifulSoup(html.text, "lxml")

    iframe = dom.select_one("iframe")

    if not iframe or not iframe.has_attr("src"):
        return []

    html = download(requests.compat.urljoin(seed, iframe["src"]))

    dom = BeautifulSoup(html.text, "lxml")

    links = [["_href"] for _ in dom.select("a") if _.has_attr("href")] #핵심

    unseen = list()

    for link in links:
        if len(link) > 1 and link[0] == "/":
            #print(link)
            newLink = requests.compat.urljoin(seed, link)
            if newLink not in unseen:
                unseen.append((newLink, limit+1))
            # else:
            #     print("Skipped2", link)
        elif link.startswith("http"):
            unseen.append((link, limit+1))
        # else:
        #     print("Skipped1", link)

    # print("{0} [{1}]".format(seed, len(unseen)))

    return unseen

seen = list()

for link in queue:
    #(URL, LIMIT)
    link = queue.pop(0)
    seen.append(link[0])
    links = urlExtractor(link[0], link[1])

    queueURL = [_[0] for _ in queue]

    queue.extend([_ for _ in links if _[0] not in queueURL and _ not in seen and requests.compat.urlparse(_[0])[1] == "blog.naver.com"])
```

```
print("{0} {1} [{2}]" .format(">"*link[1], link[0], len(links)))
```

<https://blog.naver.com/shkwon1128?Redirect=Log&logNo=221530738046> [32]  
<https://blog.naver.com/js2y86?Redirect=Log&logNo=221530397718> [32]  
<https://blog.naver.com/dlqlwm14?Redirect=Log&logNo=221529807195> [32]  
<https://blog.naver.com/lyj0088?Redirect=Log&logNo=221530708253> [33]  
<https://komartin.blog.me/221530734469> [0]  
> <https://blog.naver.com> [0]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=shkwon1128> [78]  
> <https://blog.naver.com/MyBlog.nhn> [0]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=shkwon1128> [78]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=shkwon1128&skinId=&from=menu> [78]  
> <https://blog.naver.com/PostList.nhn?blogId=shkwon1128&skinType=&skinId=&from=menu> [27]  
> <https://blog.naver.com/library/LibraryView.nhn?blogId=shkwon1128&skinType=&skinId=&from=menu> [39]  
> <https://blog.naver.com/PostList.nhn?blogId=shkwon1128&categoryNo=37&from=postList> [30]  
> <https://blog.naver.com/shkwon1128> [78]  
> <https://blog.naver.com/shkwon1128> [78]  
> <https://blog.naver.com/PostList.nhn?blogId=shkwon1128&categoryNo=37&from=postList&parentCategoryNo=0> [30]  
> <https://blog.naver.com/PostList.nhn?blogId=shkwon1128&categoryNo=37&from=postList&parentCategoryNo=0> [30]  
> <https://blog.naver.com/library/LibraryView.nhn?blogId=shkwon1128> [39]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=js2y86> [0]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=js2y86&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=1&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=8&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=27&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=71&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=62&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/memo/MemologPostList.nhn?blogId=js2y86&Redirect=MemoList&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/BlogPrivateTagCloud.nhn?blogId=js2y86&Redirect=Dtagcloud&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=js2y86&categoryNo=1> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=19&from=postList> [0]  
> <https://blog.naver.com/js2y86> [37]  
> <https://blog.naver.com/js2y86> [37]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=19&from=postList&parentCategoryNo=0> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=js2y86&categoryNo=19&from=postList&parentCategoryNo=0> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=dlqlwm14> [0]  
> <https://blog.naver.com/prologue/PrologueList.nhn?blogId=dlqlwm14&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=dlqlwm14&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=dlqlwm14&categoryNo=20&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=dlqlwm14&categoryNo=1&parentCategoryNo=1&skinType=&skinId=&from=menu> [0]  
> <https://blog.naver.com/PostList.nhn?blogId=dlqlwm14&categoryNo=27&parentCategoryNo=27&skinType=&skinId=&from=menu> [0]

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