```
In [10]: pip install beautifulsoup4
         Requirement already satisfied: beautifulsoup4 in /srv/conda/envs/notebook/lib/python3.6/site-
         packages (4.9.1)
         Requirement already satisfied: soupsieve>1.2 in /srv/conda/envs/notebook/lib/python3.6/site-p
         ackages (from beautifulsoup4) (2.0.1)
         Note: you may need to restart the kernel to use updated packages.
In [11]: pip install html5lib
         Collecting html5lib
           Downloading html5lib-1.1-py2.py3-none-any.whl (112 kB)
                                             | 112 kB 3.3 MB/s eta 0:00:01
         Requirement already satisfied: webencodings in /srv/conda/envs/notebook/lib/python3.6/site-pa
         ckages (from html5lib) (0.5.1)
         Requirement already satisfied: six>=1.9 in /srv/conda/envs/notebook/lib/python3.6/site-packag
         es (from html5lib) (1.15.0)
         Installing collected packages: html5lib
         Successfully installed html5lib-1.1
         Note: you may need to restart the kernel to use updated packages.
In [1]: import numpy as np # library to handle data in a vectorized manner
         import pandas as pd # library for data analsysis
         import requests
         from bs4 import BeautifulSoup
         print('Libraries imported.')
         Libraries imported.
In [12]: URL = "https://www.wikizeroo.org/index.php?q=aHR0cHM6Ly9lbi53aWtpcGVkaWEub3JnL3dpa2kvTGlzdF9
         vZ19wb3N0YWxfY29kZXNfb2ZfQ2FuYWRh019N"
         r = requests.get(URL)
         soup = BeautifulSoup(r.content, 'html5lib')
         table = soup.find('div', attrs = {'id':'container'})
         # print(soup.prettify())
         print('Page Scrapped.')
         Page Scrapped.
In [8]: | postalCodes = [];
         boroughs= [];
         neighborhoods = [];
         columnNum = 1;
         passVal = False
         for row in soup.find_all('td'):
             for cell in row:
                 if cell.string and cell.string[0].isalpha() and len(cell.string) > 2:
                     passVal = False
                     if columnNum == 1:
                         if passVal == False and cell.string[1].isdigit():
                             postalCodes.append(cell.string);
                             columnNum = 2
                         else:
                             continue
                     elif columnNum == 2 :
                         if cell.string == 'Not assigned':
                             passVal = True
                             del postalCodes[-1]
                             columnNum = 1
                             continue
                         else:
                             boroughs.append(cell.string);
                             columnNum = 3
                     elif columnNum == 3 :
                         if cell.string == 'Not assigned\n':
                             neighborhoods.append(boroughs[-1])
                             neighborhoods.append(cell.string);
                         columnNum = 1
         print('Data Collected.')
         Data Collected.
In [14]: # define the dataframe columns
         column_names = ['PostalCode', 'Borough', 'Neighborhood']
         # instantiate the dataframe
         neighbors = pd.DataFrame(columns=column_names)
         neighbors
Out[14]:
           PostalCode Borough Neighborhood
In [15]: for data in range(len(neighborhoods)):
             code = postalCodes[data]
             borough = boroughs[data]
             neighborhood_name = neighborhoods[data]
             neighbors = neighbors.append({ 'PostalCode': code,
                                             'Borough': borough,
                                             'Neighborhood': neighborhood_name}, ignore_index=True)
In [17]: neighbors
Out[17]:
           PostalCode Borough Neighborhood
In [18]: neighbors.shape
Out[18]: (0, 3)
```

In []: