```
In [1]: from IPython.core.interactiveshell import InteractiveShell
InteractiveShell.ast_node_interactivity = "last" #"all"
import pandas as pd
import numpy as np
import requests
from bs4 import BeautifulSoup
In [2]: request = requests.get("https://www.einstein.yu.edu/education/md-program/
admissions/match-results-2017.aspx")
In [3]: pd.set_option('max_rows', 300)
    raw_table = BeautifulSoup(request.content, 'lxml')
    raw_table = raw_table.find_all('table')[0]
    raw_table = pd.read_html(str(raw_table))[0]
# raw_table
```

```
In [4]: table = np.array(raw table)
        table = np.insert(table,0,'Anesthesiology') # also flattens
        table = np.insert(table,0,'Anesthesiology') # YES, twice.
        table = pd.DataFrame(table)
        ## Split table at each NaN
        tables = np.split(table, np.where([pd.isnull(table[0])])[True])
        ## Remove NaN entries
        tables = [table[~pd.isnull(table[0])] for table in tables if not isinstan
        ce(table, np.ndarray)]
        ## Remove empty DataFrames
        tables = [table for table in tables if not table.empty]
        for table in tables:
            table['Specialization'] = table[0].iloc[0]
        tables = [table[2:] for table in tables]
        result = pd.concat(tables)
        result = result.rename({0: 'Institution'}, axis='columns')
        result = result.reindex(columns=['Specialization','Institution'])
        result = result.sort_values(by=['Specialization','Institution'])
        result = result.reset index(drop=True)
        result
```

	Specialization	Institution
0	Anesthesiology	Brigham & Womens Hosp-MA
1	Anesthesiology	Montefiore Med Ctr/Einstein-NY
2	Anesthesiology	NYP Hosp-Columbia Univ Med Ctr-NY
3	Anesthesiology	NYP Hosp-Columbia Univ Med Ctr-NY
4	Anesthesiology	NYU School Of Medicine
5	Anesthesiology	NYU School Of Medicine
6	Anesthesiology	UC San Francisco-CA
7	Anesthesiology	Vanderbilt Univ Med Ctr-TN
8	Child Neurology	Montefiore Med Ctr/Einstein-NY
9	Dermatology	Montefiore Med Ctr/Einstein-NY
10	Dermatology	Montefiore Med Ctr/Einstein-NY
11	Dermatology	Montefiore Med Ctr/Einstein-NY
12	Emergency Medicine	Boston Univ Med Ctr-MA
13	Emergency Medicine	Cook County-Stroger Hospital-IL
14	Emergency Medicine	Hofstra Northwell SOM-NY
15	Emergency Medicine	Hofstra Northwell SOM-NY
16	Emergency Medicine	Icahn SOM at Mount Sinai-NY
17	Emergency Medicine	Icahn SOM at Mount Sinai-NY
18	Emergency Medicine	Loma Linda University-CA
19	Emergency Medicine	Maimonides Med Ctr-NY
20	Emergency Medicine	Montefiore Med Ctr/Einstein-NY
21	Emergency Medicine	Montefiore Med Ctr/Einstein-NY
22	Emergency Medicine	Montefiore Med Ctr/Einstein-NY
23	Emergency Medicine	SUNY HSC Brooklyn-NY
24	Emergency Medicine	SUNY HSC Brooklyn-NY
25	Emergency Medicine	SUNY HSC Brooklyn-NY
26	Emergency Medicine	U Michigan Hosps-Ann Arbor
27	Emergency Medicine	UC Davis Med Ctr-CA
28	Family Medicine	Boston Univ Med Ctr-MA
29	Family Medicine	Brown Med Sch/Memorial Hosp-Rl
30	Family Medicine	Jamaica Hosp Med Ctr-NY
31	Family Medicine	Providence Hospital-DC
32	Family Medicine	SUNY HSC Brooklyn-NY
33	Family Medicine	U Michigan Hosps-Ann Arbor
34	General Surgery	Jacobi Med Ctr/Einstein-NY

	Specialization	Institution
35	General Surgery	Jacobi Med Ctr/Einstein-NY
36	General Surgery	Mayo Clinic School of Grad Med Educ-FL
37	General Surgery	Montefiore Med Ctr/Einstein-NY
38	General Surgery	Montefiore Med Ctr/Einstein-NY
39	9 General Surgery Montefiore Med Ctr/Einstein-	
40	General Surgery	Oregon Health & Science Univ
41	General Surgery	Stony Brook Teach Hosps-NY
42	2 General Surgery Temple Univ Hos	
43	General Surgery	University at Buffalo SOM-NY
44	Internal Medicine	B I Deaconess Med Ctr-MA
45	Internal Medicine	Boston Univ Med Ctr-MA
46	Internal Medicine	Boston Univ Med Ctr-MA
47	Internal Medicine	CA Pacific Med Center
48	Internal Medicine	Dartmouth-Hitchcock Med Ctr-NH
49	Internal Medicine	Hofstra Northwell SOM-NY
50	Internal Medicine	Icahn SOM Beth Israel-NY
51	Internal Medicine	Icahn SOM at Mount Sinai-NY
52	Internal Medicine	Icahn SOM at Mount Sinai-NY
53	Internal Medicine	Icahn SOM at Mount Sinai-NY
54	Internal Medicine	Icahn SOM at Mount Sinai-NY
55	Internal Medicine	Icahn SOM at Mount Sinai-NY
56	Internal Medicine	Icahn SOM at Mount Sinai-NY
57	Internal Medicine	Icahn SOM at Mount Sinai-NY
58	Internal Medicine	Jacobi Med Ctr/Einstein-NY
59	Internal Medicine	Jacobi Med Ctr/Einstein-NY
60	Internal Medicine	Jewish Hospital-OH
61	Internal Medicine	Johns Hopkins Hosp-MD
62	Internal Medicine	Johns Hopkins/Bayview-MD
63	Internal Medicine	Maimonides Med Ctr-NY
64	Internal Medicine	Maimonides Med Ctr-NY
65	Internal Medicine	Massachusetts Gen Hosp
66	Internal Medicine	Mayo Clinic School of Grad Med Educ-MN
67	Internal Medicine	Montefiore Med Ctr/Einstein-NY
68	Internal Medicine	Montefiore Med Ctr/Einstein-NY
69	Internal Medicine	Mt Auburn Hospital-MA

	Specialization	Institution
70	Internal Medicine	NYP Hosp-Columbia Univ Med Ctr-NY
71	Internal Medicine	NYP Hosp-Weill Cornell Med Ctr-NY
72	Internal Medicine	NYP Hosp-Weill Cornell Med Ctr-NY
73	Internal Medicine	NYU School Of Medicine
74	Internal Medicine	Oregon Health & Science Univ
75	Internal Medicine	Rhode Island Hosp/Brown Univ
76	Internal Medicine	Rush University Med Ctr-IL
77	Internal Medicine	Rutgers-New Jersey Medical School
78	Internal Medicine	Stony Brook Teach Hosps-NY
79	Internal Medicine	Stony Brook Teach Hosps-NY
80	Internal Medicine	Tufts Medical Center-MA
81	Internal Medicine	Tufts Medical Center-MA
82	Internal Medicine	U Michigan Hosps-Ann Arbor
83	Internal Medicine	U Rochester/Strong Memorial-NY
84	Internal Medicine	U Southern California
85	Internal Medicine	UC San Diego Med Ctr-CA
86	Internal Medicine	UCLA Medical Center-CA
87	Internal Medicine	UCLA Medical Center-CA
88	Internal Medicine	Yale-New Haven Hosp-CT
89	Neurology	Icahn SOM at Mount Sinai-NY
90	Neurology	Icahn SOM at Mount Sinai-NY
91	Neurology	NYU School Of Medicine
92	Obstetrics-Gynecology	Hofstra Northwell SOM-NY
93	Obstetrics-Gynecology	Icahn SOM at Mount Sinai-NY
94	Obstetrics-Gynecology	Icahn SOM at Mount Sinai-NY
95	Obstetrics-Gynecology	Kaiser Permanente-Oakland-CA
96	Obstetrics-Gynecology	Lincoln Medical Ctr-NY
97	Obstetrics-Gynecology	Montefiore Med Ctr/Einstein-NY
98	Obstetrics-Gynecology	Montefiore Med Ctr/Einstein-NY
99	Obstetrics-Gynecology	Montefiore Med Ctr/Einstein-NY
100	Obstetrics-Gynecology	NYMC-Westchester/Metropolitan-NY
101	Obstetrics-Gynecology	NYP Hosp-Columbia Univ Med Ctr-NY
102	Obstetrics-Gynecology	NYU Lutheran Medical Ctr-NY
103	Obstetrics-Gynecology	NYU School Of Medicine
104	Obstetrics-Gynecology	Thomas Jefferson Univ-PA

Institution	Specialization	
U Colorado SOM-Denver	Obstetrics-Gynecology	105
U Connecticut School of Medicine	Obstetrics-Gynecology	106
Icahn SOM at Mount Sinai-NY	Ophthalmology	107
Mass. Eye & Ear Infirmary	Ophthalmology	108
Montefiore Med Ctr/Einstein-NY	Ophthalmology	109
SUNY Upstate - Syracuse	Ophthalmology	110
Univ. Michigan	Ophthalmology	111
Boston Univ Med Ctr-MA	Orthopaedic Surgery	112
Georgetown Univ Hosp-DC	Orthopaedic Surgery	113
Montefiore Med Ctr/Einstein-NY	Orthopaedic Surgery	114
NYU School Of Medicine	Orthopaedic Surgery	115
Tufts Medical Center-MA	Orthopaedic Surgery	116
Yale-New Haven Hosp-CT	Orthopaedic Surgery	117
Montefiore Med Ctr/Einstein-NY	Otolaryngology	118
NYP Hosp-Columbia & Cornell-NY	Otolaryngology	119
NYU School Of Medicine	Pathology	120
NYU School Of Medicine	Pathology	121
Case Western/Univ Hosps Cleveland Med Ctr-OH	Pediatrics	122
Childrens Hosp-Philadelphia-PA	Pediatrics	123
Childrens Hosp-Philadelphia-PA	Pediatrics	124
Childrens Hosp-Philadelphia-PA	Pediatrics	125
Childrens Hospital-Boston-MA	Pediatrics	126
Childrens Hospital-Oakland-CA	Pediatrics	127
Childrens Hospital-Oakland-CA	Pediatrics	128
Icahn SOM at Mount Sinai-NY	Pediatrics	129
Jacobi Med Ctr/Einstein-NY	Pediatrics	130
Jacobi Med Ctr/Einstein-NY	Pediatrics	131
Jacobi Med Ctr/Einstein-NY	Pediatrics	132
Jacobi Med Ctr/Einstein-NY	Pediatrics	133
Montefiore Med Ctr/Einstein-NY	Pediatrics	134
Montefiore Med Ctr/Einstein-NY	Pediatrics	135
Montefiore Med Ctr/Einstein-NY	Pediatrics	136
Montefiore Med Ctr/Einstein-NY	Pediatrics	137
Montefiore Med Ctr/Einstein-NY	Pediatrics	138
Montefiore Med Ctr/Einstein-NY	Pediatrics	139

	Specialization	Institution
140	Pediatrics	NYMC-Westchester Med Ctr-NY
141	Pediatrics	NYP Hosp-Columbia Univ Med Ctr-NY
142	Pediatrics	NYP Hosp-Columbia Univ Med Ctr-NY
143	Pediatrics	NYP Hosp-Columbia Univ Med Ctr-NY
144	Pediatrics	NYP Hosp-Columbia Univ Med Ctr-NY
145	Pediatrics	NYP Hosp-Weill Cornell Med Ctr-NY
146	Pediatrics	Stanford Univ Progs-CA
147	Pediatrics	UC San Francisco-CA
148	Pediatrics	UCLA Medical Center-CA
149	Phys Medicine & Rehab	Hofstra Northwell SOM-NY
150	Phys Medicine & Rehab	Icahn SOM at Mount Sinai-NY
151	Phys Medicine & Rehab	NYP Hosp-Columbia & Cornell-NY
152	Psychiatry	Hosp of the Univ of PA
153	Psychiatry	Mayo Clinic School of Grad Med Educ-MN
154	Psychiatry	Montefiore Med Ctr/Einstein-NY
155	Psychiatry	NYP Hosp-Columbia Univ Med Ctr-NY
156	Psychiatry	NYP Hosp-Weill Cornell Med Ctr-NY
157	Psychiatry	SUNY HSC Brooklyn-NY
158	Radiation Oncology	Mayo Clinic School of Grad Med Educ-MN
159	Radiation Oncology	Memorial Sloan-Kettering-NY
160	Radiation Oncology	Montefiore Med Ctr/Einstein-NY
161	Radiation Oncology	Rutgers-R W Johnson Medical School-NJ
162	Radiology-Diagnostic	Boston Univ Med Ctr-MA
163	Radiology-Diagnostic	Case Western/Univ Hosps Cleveland Med Ctr-OH
164	Radiology-Diagnostic	Hofstra Northwell SOM-Lenox Hill Hosp-NY
165	Radiology-Diagnostic	Jacobi Med Ctr/Einstein-NY
166	Radiology-Diagnostic	Montefiore Med Ctr/Einstein-NY
167	Radiology-Diagnostic	NYP Hosp-Weill Cornell Med Ctr-NY
168	Radiology-Diagnostic	NYP Hosp-Weill Cornell Med Ctr-NY
169	Radiology-Diagnostic	NYU School Of Medicine
170	Radiology-Diagnostic	Rutgers-R W Johnson Medical School-NJ
171	Radiology-Diagnostic	UCLA Medical Center-CA
172	Radiology-Diagnostic	Wake Forest Baptist Med Ctr-NC
173	Urology	NYU School Of Medicine
174	Urology	Stony Brook Teach Hosps-NY